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George Leslie

PYROTECHNIA

OR,

A DISCOVRSE OF ARTIFICIALL *FIRE-WORKS*:

In which the true Grounds of that Art are plainly
and perſpicuouſly laid downe:

Together with ſundry ſuch Motions, both *Straight* and
Circular, performed by the helpe of Fire, as are not
to be found in any other Diſcourſe of this kind,
Extant in any Language.

VVhereunto is annexed a ſhort TREATISE of *Geo-
metrie, contayning certaine* Definitions *and* Problemes,
for the Menſuration of *Superficies* and *Sollids*, with *Tables* for
the Square Root to 25000, and the Cubick Root to 10000
*Latus, wherein all Roots under thoſe Numbers are
extracted onely by Ocular Inſpection.*

VVritten by *John Babington* Gunner, and Student
in the MATHEMATICKS.

LONDON,
Printed by THOMAS HARPER, for RALPH MAB,
MDCXXXV.

TO
THE RIGHT HONOVRABLE, THE EARLE OF *Newport*, Maſter of his Majeſties Ordnance, my ſingular good Lord.

Right Honourable:

I Am not induced to preſent this Treatiſe to your Lordſhip for any worth that is either in it, or in my ſelfe, the Author of it; the thing being of ſmall moment, and my ſelfe of as little account: but your Lordſhips ſingular clemency to all, and your Honourable favour vouchſafed to me in particular, hath made me thus bold, and hath cauſed me thus farre to preſume. I have beene for certaine yeeres paſt, and ſo at preſent am, one of the inferiour Gunners of his Majeſtie; and ever ſince I held that place, I have endeavoured to gaine ſuch skill and experience, as I eſteemed moſt requiſite for that ſervice. And to that end I have beſtowed ſome time and expence, as my occaſions and ability would permit, in the practiſe of *Artillery* and *Fire-workes*, wherein though I have chiefly aymed at ſuch concluſions as might be uſefull againſt an enemy in the *field*, yet theſe *halcyon* dayes of peace and tranquility, which through the goodneſſe of God we have ſo long enjoyed, have given mee occaſion to invent and practiſe ſuch alſo as theſe following: which howſoever they may ſeeme to ſerve onely for delight and exerciſe, yet as by the handling of theſe there may bee gained knowledge in the natures and operations of the ſeverall ingredients and their compoſitions; ſo the due conſideration of the ordering of them may excite and ſtirre up in an ingenious minde, ſundry inventions more ſerviceable in times of warre. Now becauſe your Lordſhip hath of late, by the gratious providence of the Almighty, for your extraordinary wiſedome and worth, beene advanced to that eminent place, upon which I have ſome dependance, and to which I ſtand obliged by my ſpeciall ſervice (to which alſo all workes of *Pyrotechnie* may ſeeme to have relation) I hold it my bounden duty to preſent theſe firſt fruits of my labours to your Honour, as an unfayned teſtimony, and an undoubted evidence of my faithfull obſervance, and ſingular reſpect to your Lordſhip: which if you ſhall be pleaſed to take into your ſpecial Patronage and protection, I ſhall be in good hope to be freed both from the venomous tooth of *Momus*, and from the malevolent aſpect of *Zoilus*, and from the poyſoned breath and ſtinging of the reſt of that viperous brood, and ſhall alwaies remaine

Your Honours in all dutifull obſervance,

JOHN BABINGTON.

TO
THE READER.

Courteous Reader,

H*Aving for mine owne private recreation, ſpent ſome vacant houres in the ſtudy and contemplation of thoſe artificiall* Fire-works *which are diſcourſed of in the enſuing Treatiſe; I held it requiſite for my further and better ſatisfaction, as any opportunity did offer it ſelfe, to make experiment of ſome of the particularities there ſet downe; and I did accordingly now and then bring into* Act *that whereof before I had but a meere* Notion, *and the bare and naked* Theorie: *which becauſe it could not be done ſo privately, but that of neceſſity ſometimes it would come to the view of others; by that meanes it is come to paſſe, that more notice than I was ever willing to, hath beene taken, that I have beſtowed ſome thoughts upon that ſubiect, and taken more than ordinary paines in it. And not ſo onely, but thereupon alſo ſome of my intimate friends and acquaintance, who have a ſpeciall intreſt in me, have beene very inſtant and urgent with me that I would make my labours more publike, and communicate them to the world, by committing them to the Preſſe: whereto though I was* *a long while utterly unwilling, as being conſcious to my ſelfe of mine owne inability and inſufficiency to deviſe and contrive any thing worthy to come to ſuch publike view, yet their importunity hath at laſt ſo farre prevailed with me, that thoſe rude and unpoliſhed lines are now like to ſee the Sunne, and to come abroad to be ſcanned and cenſured by others. If thou ſhalt looke upon them with a faire and favourable eye, I ſhall bee encouraged to beſtow my paines upon ſome other thing, which may happily give thee more content, and in the meane while ſhall reſt*

Thy true friend and well-willer,

JOHN BABINGTON, Gunner.

In laudem Authoris IOANNIS BABINGTON *Amici & in Arte Matheſios celeberrima Socii.*

THe pleaſant object of cloſe ardent Bowres,
Envelloped with *Florae's* fragrant flowres,
The goodly Proſpect of Skie-kiſsing Hils,
Or fertile Plaines vein'd ore with purling Rils:
More raviſh not my ſences with delight,
Then doth thy *Pyrotechnie*. Many write
Of Arts in themſelves worthy, but their worth
Is much impairde by thoſe that ſet them forth,
Wholly unskill'd in *Megathologie*,
The very ſoule of each deepe Myſterie.
I wiſh ſuch ſhallow men would meddle leſſe,
And with their ſenſeleſſe ſtuffe not cloy the Preſſe.
All ſuch his Schoole to paſſe by *Plato* wilde
In beautifull Geometrie not skild.
Well haſt thou then my Friend expreſt thy Art,
Since this rare Science hath the greater part
Shar'd in thy Worke, giving it winged fire,
To mount it up-aloft, and deck the ayre
With ſplendent ſtars, ſilver and golden ſhowers;
Theſe are th'effects of *Mathematick* powers:
Which crown their *Authors* temples, not with bayes,
But with a wreath of ſtars and fulgent rayes.
Fairly goe on, thy ſelfe ſuch *Trophies* reare,
That neither *Time* not *Envie* may outweare.

Tho: Stutevill. Philomathes.

Vnto his worthy Friend, and induſtrious Artiſt, Maſter JOHN BABINGTON.

VVHen as I did thy Booke by chance eſpie,
With divers figures grac't, moſt curiouſly
Contriu'd, all new, and of thine own invention,
With ſundry Engines made by iuſt proportion:
I did admire thy skill, thy active braine,
Whereby thoſe things thou didſt ſo well attaine:
Juſtly I might, for of no Nation yet,
There's any hath this path ſo fully beat;
Nor laid thoſe grounds that thou haſt done, whereby
We might attaine to things that tend ſo high.
For ſenceleſſe things with life thou ſeem'ſt to fill,
Making them wondred at by common skill.
Thou ſundry doubts unfold'ſt, and with much eaſe,
Thou teacheſt us to meaſure Land and Seas.
When as I thought on theſe, and knew how rare
Men thus addicted, and thus given were,
My mind, my hand, my hand did force my pen,
T' offer my mite of thankes 'mongſt other men.
Accept it then, and let it no leſſe bee
Pleaſing, then greater gifts are unto thee.

Thy truly affectionate, and wel-
wiſhing Friend,

John Bate.

In commendations of his worthy Friend Maſter *John Babington* Gentleman.

I f I were worthy to extoll the Name
O f him that ſpends the 'Elixer of his ſpirits,
H ow rare definde, I ſhould ſet forth the ſame,
N ere ſhould I flinch; for why thy great demerits
B ravely ſhould arme me boldly to oppoſe
A gainſt thy Criticks and back-biting foes,
B rave man of worth proceed: the rareſt wits,
I f thy rare Worke doe come but in their view,
N ere doubt, but they as ſoone as God permits,
G reat love and aid will then expreſſe to you,
T hat ſpends your time, ſpirits, and great expence
O n Countries good for love, not recompence.
N ow tell me thou that haſt a Tallent lent,
Which was receiv'd from *God Omnipotent*,
And hor'dſt it up, burying it with thy Name,
It there takes Period, ending with thy frame.
When this my Authors fame, I iuſt preſage,
Shall flouriſh ſtill, and not weare out with age.

Thy Friend IOHN HICKS, *alias*
Bridghampton Gunner.

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A Treatiſe of ARTIFICIALL FIRE-WORKS, moſt of them being invented and approved by the Author.

CHAPTER I.

How to make all ſorts of moulds, in a true proportion, with the Rowlers and Drifts.

THat I may ſet downe the true proceeding in Fireworkes, it is requiſite in the firſt place to lay downe the true order and forme of making all ſorts of moulds, aſwell greater as leſſe: and to proceed, you muſt get of the beſt drie Box you can finde; if not, of ſome other tough wood, as Crabbe-tree, Holly, or ſuch like wood, which when you have provided according to your ſize you meane to uſe, it behoveth in the next place to be known, of what diameter you will have the heighth of your bore, and from thence all the reſt is derived: For example, I deſire to have one bored of an inch high, which I get bored by ſome Turner; and to know of what length it muſt be, I take for the ſayd length ſix diameters of the bore, which maketh ſix inches, and for the thickneſſe it ought to be halfe a diameter on each ſide, ſo that being turned true round, it contaynes two inches in diameter. Then have you to provide a bottome, which is to be fitted in ſuch ſort as you ſee deſcribed in this figure: the proportions heerafter follow.

A *is the foot of the mould, and is in heighth two diameters, which muſt bee two inches; and one diameter and* $\frac{1}{4}$ *in breadth, whether it bee ſquare or round.*

B *ſerveth only for a ſtay, and muſt ariſe one inch into the mould, which is one diameter, and ſo proportionall in all other ſorts.*

C *is for the mouth of the rocket, and is in diameter* $\frac{2}{3}$ *of the bore; ſo ſetting one foot of the compaſſes in the center, deſcribe the arch, which is the full heighth required.*

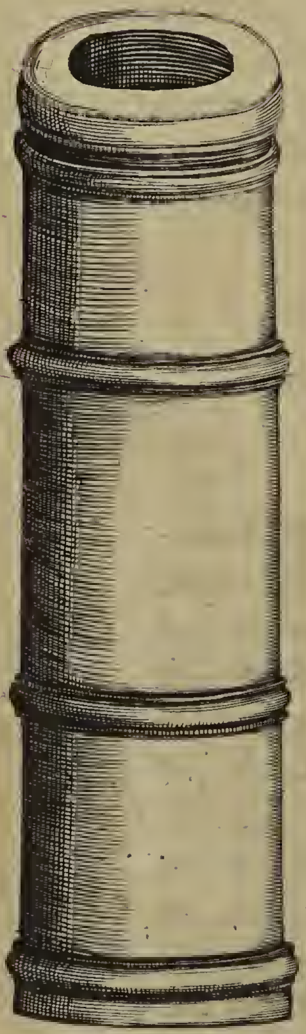
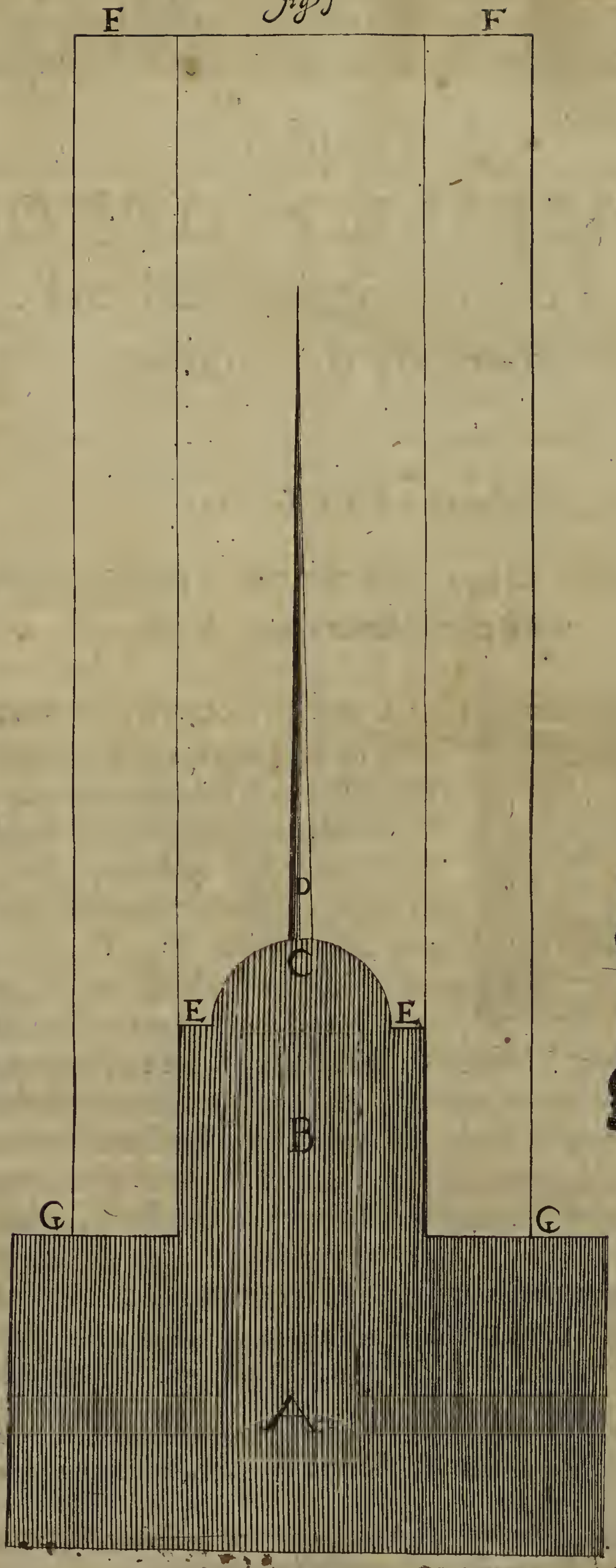
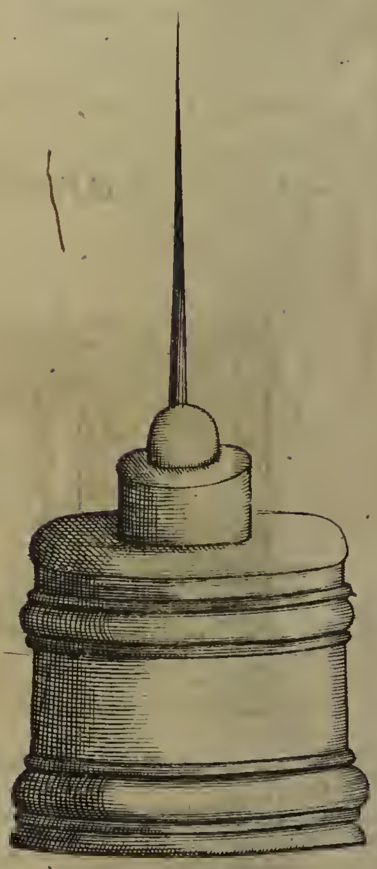


fig 1





E E ſerveth for the paper being rowled, and is $\frac{1}{6}$ part of the diameter on each ſide.

F F is the thickneſſe of the mould, which is halfe the diameter of the bore, that is in this place halfe an inch.

F G the length of the mould, which is ſix diameters.

D the length and bigneſſe of the needle, which is $\frac{2}{3}$ the length of the mould, and bigneſſe to be $\frac{1}{6}$ of the diameter of the bore at the bottom, and ſow taper to the top.

When you have provided your mould according to your deſire, then you are to fit your rowler, which muſt be two third parts of the diameter of the bore of the ſayd mould, and the length thereof to bee ſix inches longer than your mould, which is for the roling of your paper, and is deſcribed by the letter A in this ſecond figure, with a hole to be bored in the bottom to receive a wyer, which muſt bee faſtned in another peece of wood ſomewhat ſhorter, which is to take out at pleaſure, as you may ſee deſcribed by the letter D: there is required no proportion of length for this ſhort peece; only it ſufficeth if it be but ſo long as a man may well hold it in his hand; the uſe hereafter ſhall be more plainly deſcribed when I come to ſpeake of the order of making the coffins; which ſhall be in the next Chapter. When you have fitted your rocket according to this direction, proceed to the making of your rammers, (or more properly called drifts) which muſt bee alwayes two at the leaſt to, each mould, and as your mould increaſes in largeneſſe, ſo muſt you have more rammers, by reaſon of the largeneſſe of the taper needle: the manner and form you may ſee deſcribed by the letters B C.

B is the hollow rammer, and hath a hole in it anſwerable to the length and bigneſſe of the taper needle, as appeareth in that figure. It muſt be a ſmall matter leſſe than the rowler, becauſe that otherwiſe in putting it in, you will put down the paper, which is very prejudiciall to your rocket.

The other rammer is not halfe ſo long, and is ſad, that when you have beaten to the top of the needle, you make uſe of it: it is deſcribed by the letter C.

When you have fitted your rammers, you muſt provide a peece of Box made after the form as you ſee deſcribed; which muſt ſerve to make your large coffins to put the work which you intend, on the head of your rockets. It is deſcribed by the letter F, as in the figure is manifeſt.

The letters E E ſhew the diameter, which is the juſt bigneſſe of your rocket, and muſt be ſo in all ſizes.

G G ſhewes the largenſſe of the coffin, and muſt bee two diameters, which in this figure is two inches.

H H H H ſhewes the length of the coffin, which ought to bee two diameters of your rocket, which in this place is two inches; but we are not tied to that ſo preciſely; for we are to alter that according to the works which we put therein.

The above proportions are by no means just

Chap. II.

How to make your coffins of paper.

NOW having explained the manner and forme of the moulds, with the reſt of the dependants, I come now to ſhew the uſe of them in their ſeverall orders: and firſt for the uſe of the rowler, which is deſcribed by the letter A.

You muſt provide ſome good ſtrong paper, as old Law books, which are both ſtrong, and large; and cut out your ſizes of paper for your work: now to know what length your paper muſt bee, let it bee alwayes the length of your mould: ſo ſhall you have one diameter left above the mould, the uſe whereof ſhall be ſhewn in his proper place. Now having provided your paper in length ready, take your rowler, and one length of paper, and begin to rowle; when you have rowled one ſheet, you muſt have a board to rowle it with (the board is marked in the ſecond figure;) which muſt be done in this manner: you muſt hold the rowler in your left hand, and with your right hold the board; then lay down your rowler upon ſome ſmooth cheſt, or table, or ſuch like; which when you have done, lay on your board, and rowle it very hard, only one way; which having done, rowle another length, and ſo proceed in rowling between every ſheet, till you have rowled on ſo much as will fill the mould very ſtraight; when you have ſo done, draw forth your rowler one diameter, which in this place is one inch; and then take the other part of the rowler, which is ſhort, and marked with D, and put it in as you ſee deſcribed; and there have you a place left for the choaking of your rocket, of which we come now to ſpeak:

Figure 2. G.

Chap. III.

How you ſhall choak a rocket.

WHen you come to choak your rocket, you muſt have a ring to ſcrew into ſome poſt, at which you muſt tie your cord, which muſt be bigger or leſſer, according to the bigneſſe of your rocket, by reaſon that a ſmall cord will not choak a great rocket for want of ſtrength; and again, a great cord will not ſerve for a ſmall, in regard that it will make too great a choaking; ſo that you muſt have a bigger and leſſe; which when you have ſo provided, tying one end to the ring, you muſt about a yard off tie a ſtick, in faſhion of a handle for a ſwing, which muſt bee ſtrong, by reaſon that it muſt beare the whole weight of the body, (the letter G in the ſecond figure expreſſeth the ſame;) which when you have provided,

Figure 2. K.

fig 2

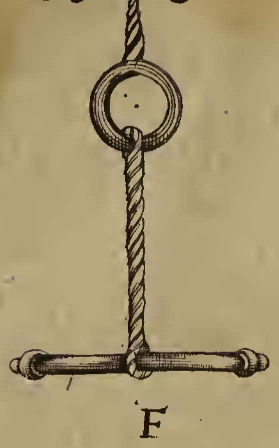
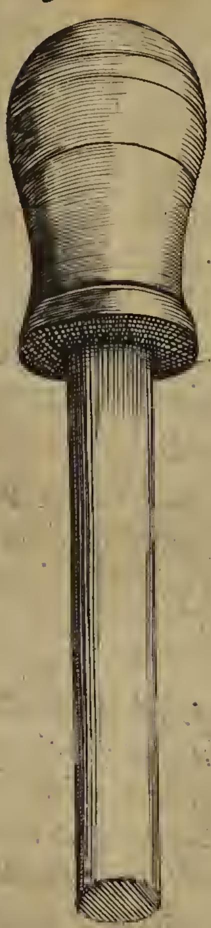


fig C 2



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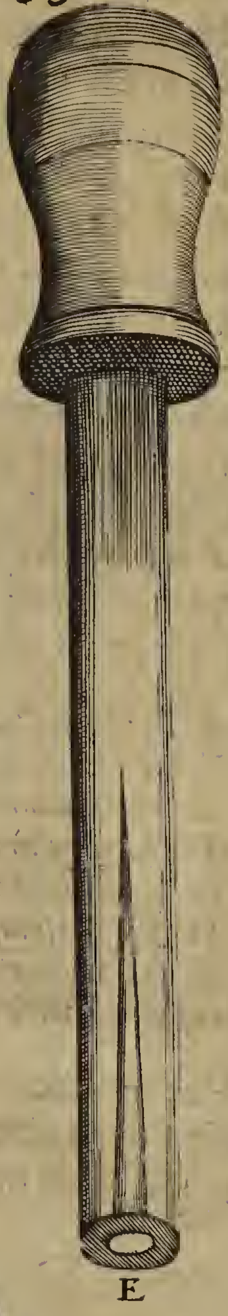

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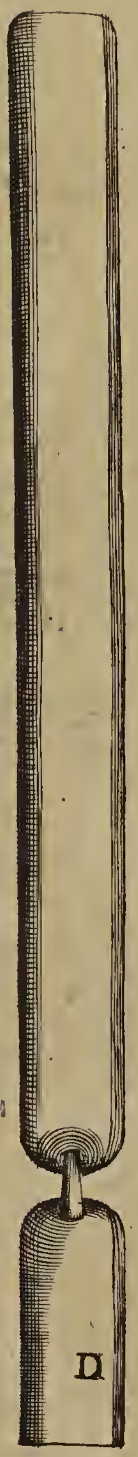

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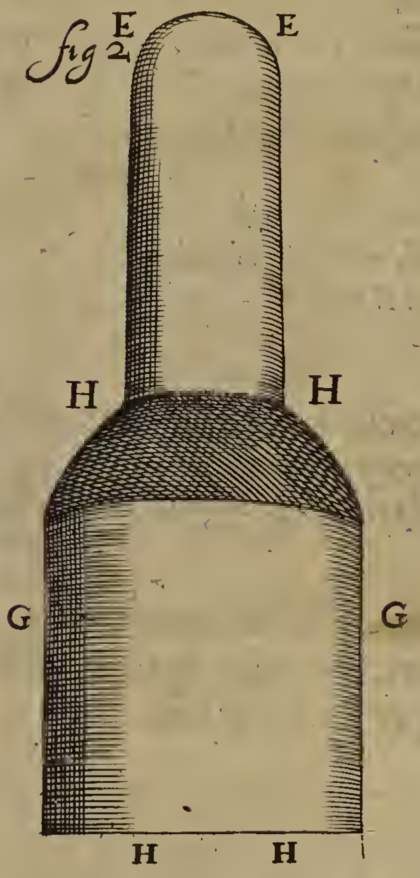
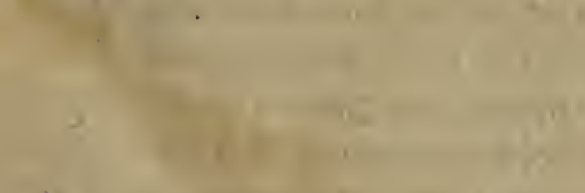
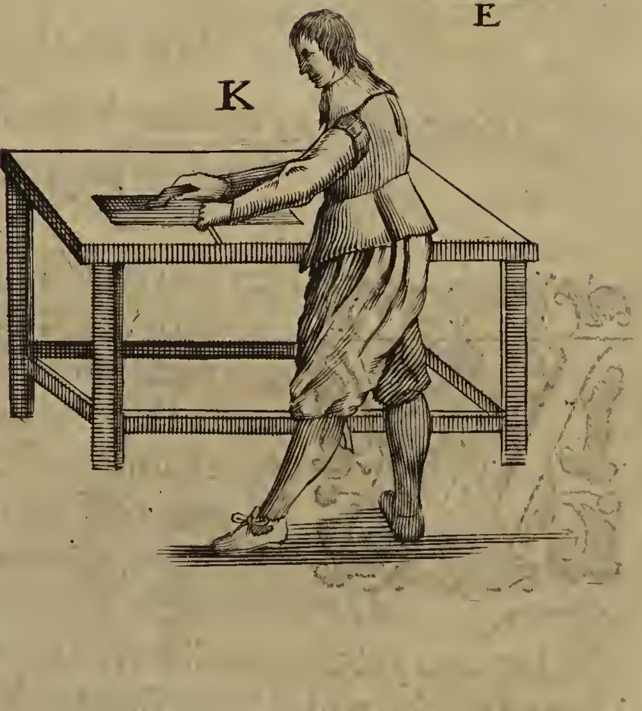


fig 2





put the ſticke betweene your legges, and winde the cord about the rocket caſe in the place appointed, which is betweene the long rowler and the ſhort, when you have ſo done, girt it by degrees, ever turning your rouler, to the end it may come together more cloſe and neat (the manner is expreſſed in the third figure, by the letter K) ſo when you have choaked it ſufficiently, draw forth your ſhort rowler, and where your *Figure* 3. K. choaking is, tye it about with ſtrong packthred; and ſo drawing forth your rowler, you have a coffin ready to be filled when occaſion ſerveth, the forme whereof followeth. And becauſe the choaking of a rocket is very laborious and dangerous, in regard of the breaking of the cord, which often hapneth; I haue therefore invented a certaine Engine, wherby a childe may choake the ſtrongeſt rocket. The parts of it are a ſcrew moving a wheele, on the axeltree of which is faſtened your cord for choaking, with the other end of the cord faſtened to a ſtaple on the ſame *Figure* 3. B. C. boord: the forme whereof you ſhall finde deſcribed in the third figure, by the letter B. C.

Figure 3.

A *Is the coffin of a Rocket wholly finiſhed, with his choaking.*
B *The forme of an Engine for choaking a Rocket.*
C *The mannner of uſing the Engine.*
F *Is a meaſure made of horne or latten.*
G *Is a funnell with a handle to fill ſmall Rockets, and other ſmall works.*
H *Is a fine ſearce, with a receiver to ſearce your ingredients.*
I *Is a morter to meale your powder, and your other ingredients, which muſt be of wood, with a peſtle.*

Having deſcribed the order and formes of all things neceſſary to the making of a rocket, it reſteth now that we know the manner of driving it, as alſo what ingredients are moſt proper for every ſize.

Chap. IV.

The manner of driving a Rocket, with the inſtruments belonging to the ſame.

WHen you have finiſhed your coffin of paper, take it, and with your hollow rammer force it downe cloſe into your mould, which when you have done, ſtrike two or three ſmart blowes to ſettle the paper into his right forme: which being done, you muſt begin to fill your coffin, in doing whereof, you muſt have a great care, alwaies providing a meaſure, which may containe $\frac{1}{20}$. part of your whole Rocket; ſo by that meanes you ſhall not faile, but every Rocket ſhall have a true proportion alike; as for Example, I have a coffin, which being filled, will hold an ounce of mixture or therabouts. I take the twentieth part, and when I finde what quantity it is, I make a meaſure of horne, which ſhall containe ſo much, and then I beginne to fill my coffin with one meaſure at a time, and putting in my ram-

rammer, ſtrike foure or five ſmart blowes with a good ſtrong mallet, and then I fill another meaſure, and ſtrike againe, ſo I continue till I come to the top of the needle, then I take the ſad rammer, and ſo continue with it, till I come to thē top of the mould: now the paper which is above the top of the mould, muſt be turned downe, and beaten hard down, which being done, the Rocket is finiſhed from the mould; which force out, with as much eaſe as you can, for the leſſe you force it (being filled, and the needle taken out) the better it is, for knocking looſens the powder, and ſo cauſes the Rocket to faile: now it reſts to know the receits proper for every ſort of Rockets.

Figure 3. M.

And firſt for Rockets of one ounce, you may take only powder duſt, being very fine ſearced; which riſes very ſwift, but carries no taile of fire with it, and often times breakes, unleſſe they be very thicke of paper: but the beſt and ſureſt way is, to allay your powder with coale duſt being well ſearced, which cauſes a more glorious ſhew; and you may uſe it at your diſcretion. The ordinary allay for ſmall Rockets is, 1 *l. of powder, two* ℥. *of coaleduſt, which ſerves till you come to Rockets of foure ounces, then muſt you take to every* 1 *l. of powder* $2\frac{1}{2}$ ℥ *of coleduſt, continuing that quantity till you come to Rockets of tenne ounces, and from tenne to ſixteene ounces, which is one pound: your allay muſt be to one pound of powder; three ounces of coale.*

The ingredients for ordinary Rockets.

Now when you have provided your powder, you muſt firſt meale it, and then ſearce it, ſo that it may be free from any corne though never ſo ſmall. Likewiſe take good dry coale, well burnt, and beat it to duſt, ſearcing it very fine, which when you have done, mixe them according as your occaſion ſerveth, and as your directions are.

CHAP. V.

The manner of heading a Rocket, with the order of capping it.

NOw we come to ſhew the manner of heading a Rocket, in which we are to uſe our thicke Roler, ſpecified in the ſecond figure, and marked with F. Vpon which you muſt role ſome paper or fine paſt-board, and paſt it ſo that it may bee very cloſe, and then choake it at the length of the thicker part, ſo that it may come cloſe to your ſticke in the leſſer part, which will fit to be tyed to the top of your Rocket, ſo ſhall you have a coffine to put in your workes, which muſt bee of divers ſorts. That being done, you muſt provide Taper caps, which muſt be adjoyned to the top of the large coffin. The uſe of them is to keepe in your workes, and to cauſe them to pierce the ayre more ſwiftly. The manner of making theſe caps, is, to take a paire of Compaſſes, and deſcribe a circle in paſtboard, then cut it forth with a paire of ſheeres, and that ſhall make two cappes, being cut in the middle, and turned one corner under the other, and ſo paſted; and let them ſo paſted, be put in a napkin preſſe,

preſſe till they be dry, and when they be dry, cut out a ſemicircle in paper, which ſhall fit round about the ſaid cap, and ſhall ſerve to paſte on the cap to the coffin: the forme whereof is expreſſed in the fourth figure, by the figure 14. and 15. ſo have you all things ready to the finiſhing of your Rocket, which muſt be done as followeth.

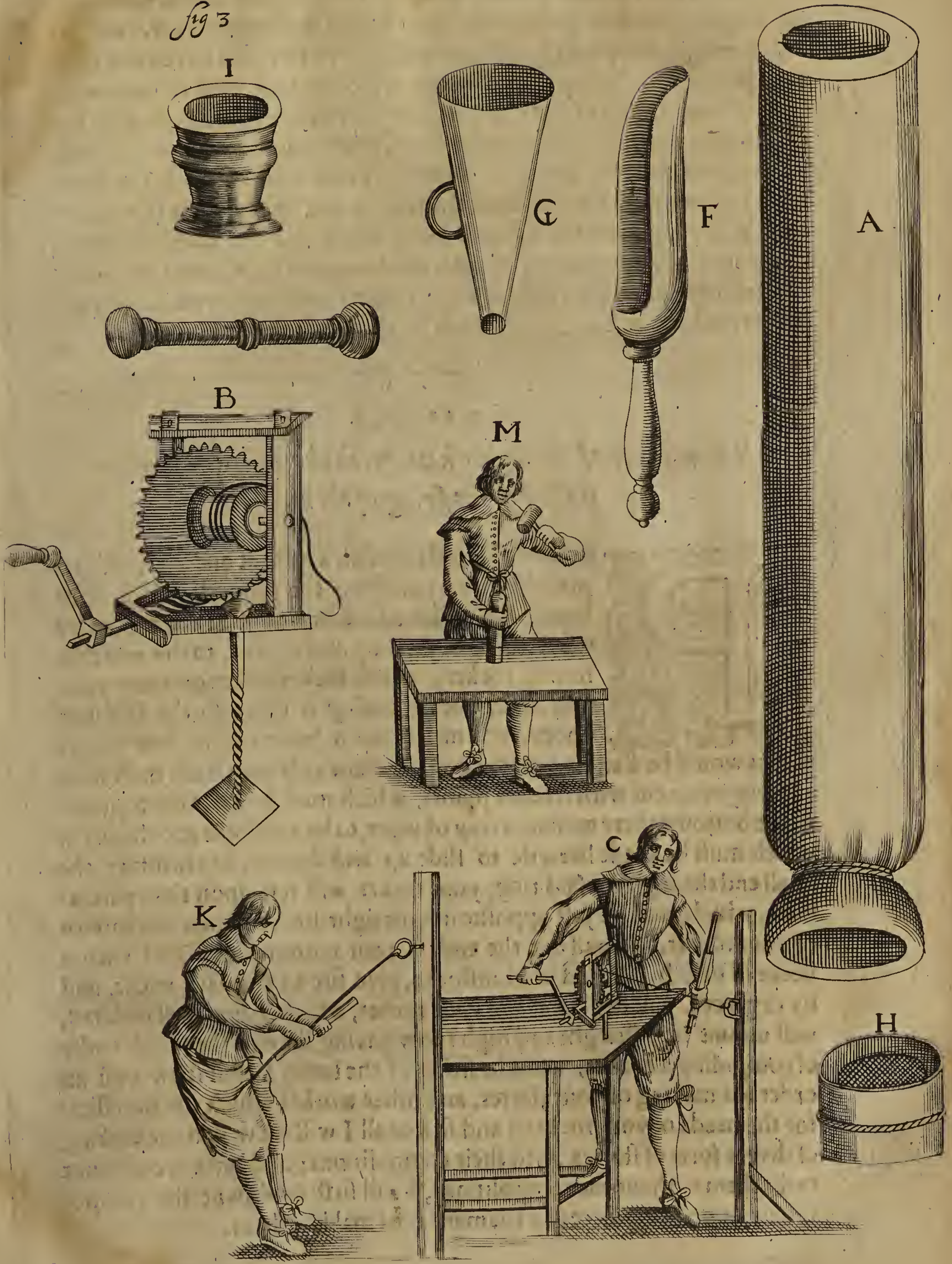
CHAP. 6.

The manner of finiſhing a Rocket.

WHen your Rocket is driuen, as I have ſhewed you, with the paper turned downe, you ſhall firſt prime it, which muſt be with cotton wicke made for the ſaid purpoſe, which you ſhall put up into the vent, leaving a peece to hang lower than the mouth of your Rocket, by three or foure inches, which being done, tye a piece of paper over the mouth, to the end it fall not out: now having primed your Rocket, you may proceede to the heading of it, and that is done after this manner. Take your Rocket, and on the head (where I told you, you ſhould turne downe the paper, you muſt with a bodkin, pierce two or three holes, to the intent that the Rocket having ſpent himſelfe, your workes which are on his head, may take fire; which holes, prime with a little powder duſt, and then put on his head, with the choaking fitted to your Rocket, which muſt come over the Rocket, in ſuch manner, that the bottome of the greater part muſt come even with the top of the Rocket; which tye faſt to your rocket with threed, and then put in your workes: but before you put in your workes, whether they be ſtarres, or any other workes, you muſt put in a little cotton wooll, being rowled in powder duſt, to the end your ſtars may fire, and likewiſe may blow out: which having done, put in your ſtarres, or other workes, and if you make more than one tire (as you may doe of your ſtarres) then muſt you put more cotton rowled in powder duſt amongſt them, or betweene every tire, to the end they may all take fire; then take your cap ſo provided as I have formerly ſhewed, and fill the hollow place with cotton, becauſe it is light, and likewiſe will fire quickly: which being fitted, paſte it cloſe to the top of the coffin, in ſuch manner, that it may ſtand very upright; then muſt you fit on your ſticke, for the peaſing of your Rocket, which ought to be about eight lengths of your Rocket without the head. You muſt get the ſmootheſt and lighteſt you can, ſuch as basket makers uſe; which when you have got, you muſt make very ſtrait, and then cutting one ſide of it, flat at the great end, make two notches on the round ſide, provided that the one be differing from the other, ſo much as is betweene the choaking of your Rocket, and the end of the vent; becauſe if you ſhould tye it upon the vent, it would looſen the powder, and ſo cauſe it to breake in the firing. Now that you tye not the wrong end of your

Rocket

fig 3



Rocket uppermoſt, as ſome fooliſhly have done, for want of better inſtructions, you muſt alwayes tye the end downewards, which is choaked, and with a piece of ſtrong thred tye it faſt to the lower notch, juſt about the choaking, ſo ſhall you be ſure your ſtickes ſhall not fall off, neither will it indanger the hurting of your rocket. When you have tyed that, then proceed to the tying of it higher, which as I ſay, muſt be ſomewhat higher than the top of the vent, and let your ſticke come even with the top of your rocket; which having done, peaſe your rocket, which muſt be after this manner. Lay it on your finger two or three inches or more from the mouth, and if you finde the ſtick be too heavy, cut it ſhorter, till you finde your Rocket to ballance your ſticke, for the ſticke being too heavy, cauſes your rocket to ſlugge, and being too light, it makes a rocket fall before he is halfe up: theſe things being provided, you have your rocket ready to be fired, which muſt be after this manner.

CHAP. VII.

The manner of firing Rockets, with the deſcription of a ſtaffe for the firing of them.

PRovide a long ſtaffe with a pike at one end, which muſt be thruſt hard into the ground, and a three legged ſtaffe with a hollow hoope at the top, to let this long ſtaffe ſlide up and downe, to the end that having rockets, whoſe ſtickes are longer than your ſaid ſtaffe, yet by raiſing it through the ſaid iron hoope, you may make it foure or five foot longer than it would be ſtanding on the ground. Now this long ſtaffe muſt have a ſliding peece cut with ſeverall points, which muſt be neere the top; and at the bottome there muſt be a ring of wyer, to let the ſticke goe through, which muſt be made likewiſe to ſlide up and downe; ſo thruſting the ſmall end through the ſaid ring, your rocket will reſt upon that part above, which muſt be juſt oppoſite in a ſtraight line, ſo open the mouth of your rocket, and pull out the end of your cotton wicke, and with a peece of match, faſtened in a Linſtocke, give fire to the ſaid wicke, and by degreees, you ſhall ſee it fire your rocket; which being well ordered, will mount very ſtraight and high: now having ſhewed the whole order of compoſing a rocket, with the firing of the ſame, I will ſhew you an order for making of your ſtarres, and other workes which are neceſſary for the heads of your rockets; and firſt of all I will ſhew you the making of divers ſorts of ſtarres, with their compoſitions; and ſince wee cannot make them without the compoſitions, I will firſt ſet downe the compoſitions, and then proceed to the manner of making them.

Chap. VIII.

Divers Compoſitions for ſtarres.

A Compoſition for ſtarres of a blew colour, with red.

Take of powder mealed,	8 ℥
Salt peter,	4 ℥
Sulphur vive,	12 ℥

best Good

Meale theſe very fine, and mixe them together with 2 ℥. of aqua vite, and $\frac{1}{2}$ ℥. of oyle of ſpicke, which let be very dry before you uſe it.

Another Compoſition which maketh a white fire and beautifull.

Take powder,	4 ℥
Salt peter,	12 ℥
Sulphur vive,	6 ℥
Camphire,	$\frac{1}{3}$ ℥

best Good

Meale your ingredients, and mixe them; now to powder your Camphire, you muſt dip your peſtle in oyle of Almonds, or ſuch like oyle: you muſt not uſe your wooded peſtle for this, becauſe that oyle will ſoake into it, which is an enemy to ſome workes; therefore take a braſſe peſtle and morter, and dipping the peſtle in oyle of Almonds, put it to your Camphire, and ſo ſtirring it by degrees, it will powder; which when you have done, keepe it very cloſe from ayre, till ſuch time as you uſe it, otherwiſe the Camphire will loſe his ſpirit, and become of no uſe.

Another white fire which laſteth long.

Take powder,	4 ℥
Salt peter,	1 l
Sulphur vive,	8 ℥
Camphur,	1 ℥
Oyle of peeter,	2 ℥

Probatum est

Meale thoſe which are to be mealed, very fine, and mixe them according to the former directions.

Chap.

CHAP. IX.

The manner of making the beſt ſort of ſtarres.

NOw having ſet downe the compoſitions for ſtarres, it reſteth to know how theſe ſtarres are made, which is divers waies, but I will ſet you downe onely two waies both which are very good, ſo that you may take your choyce. The firſt is this, you muſt make little ſquare pieces of browne paper, which fill with your compoſition *Figure 4. N. G.* you intend, and ſo double it downe, rolling it till you make it ſomewhat round, about the bigneſſe of a nut or bigger, according to the ſize of your rocket; you may put in a dozen on the head of a ſmall rocket; when you have made them up in this forme, you muſt binde them round with ſmall thred, which done, draw through a cotton wicke prepared for priming, as hereafter ſhall be ſhewne.

The ſecond ſort are made after another manner, which is thus; you muſt have a rowler, as big as an ordinary arrow, which ſhall be to rowle a length of paper about it, and with a little mouth glue, or paſte, paſte it round; ſo have you a hollow trunke of paper, which you ſhall order after this manner: Fill it by little and little with your ſmall funnell, ſtill thruſting it very hard, till you have filled it to the top; which done, cut it into ſhort pieces, about halfe an inch in length; then having in readineſſe either hot glue, or ſize mingled with red lead, dip one end of your ſhort pieces, to the end, that both ends of your ſtarre fire not, and alſo that it may not blow out; which being ſo finiſhed, ſet to dry till you uſe them, and then putting the other end into powder duſt, you may put them on your rocket, in one or two tier; alwaies provided, as I ſaid before, that you put in powder duſt betweene every tier, to the end they may all fire; thus have you the manner of making your ſtarres, the formes whereof you ſhall have deſcribed hereafter.

Priming for Rockets. The priming before ſpoken of, is made after this manner; take oyle of Camphire, and ſoake ſome cotton wicke in it, then take it out being moyſt, and rowle it in fine powder duſt, which having done, you ſhall hang it up till it be thorow dry, ſo have you prepared a very good priming, which muſt be kept cloſe from ayre, till ſuch time you have occaſion, otherwiſe the ſpirit of the Camphir will decay.

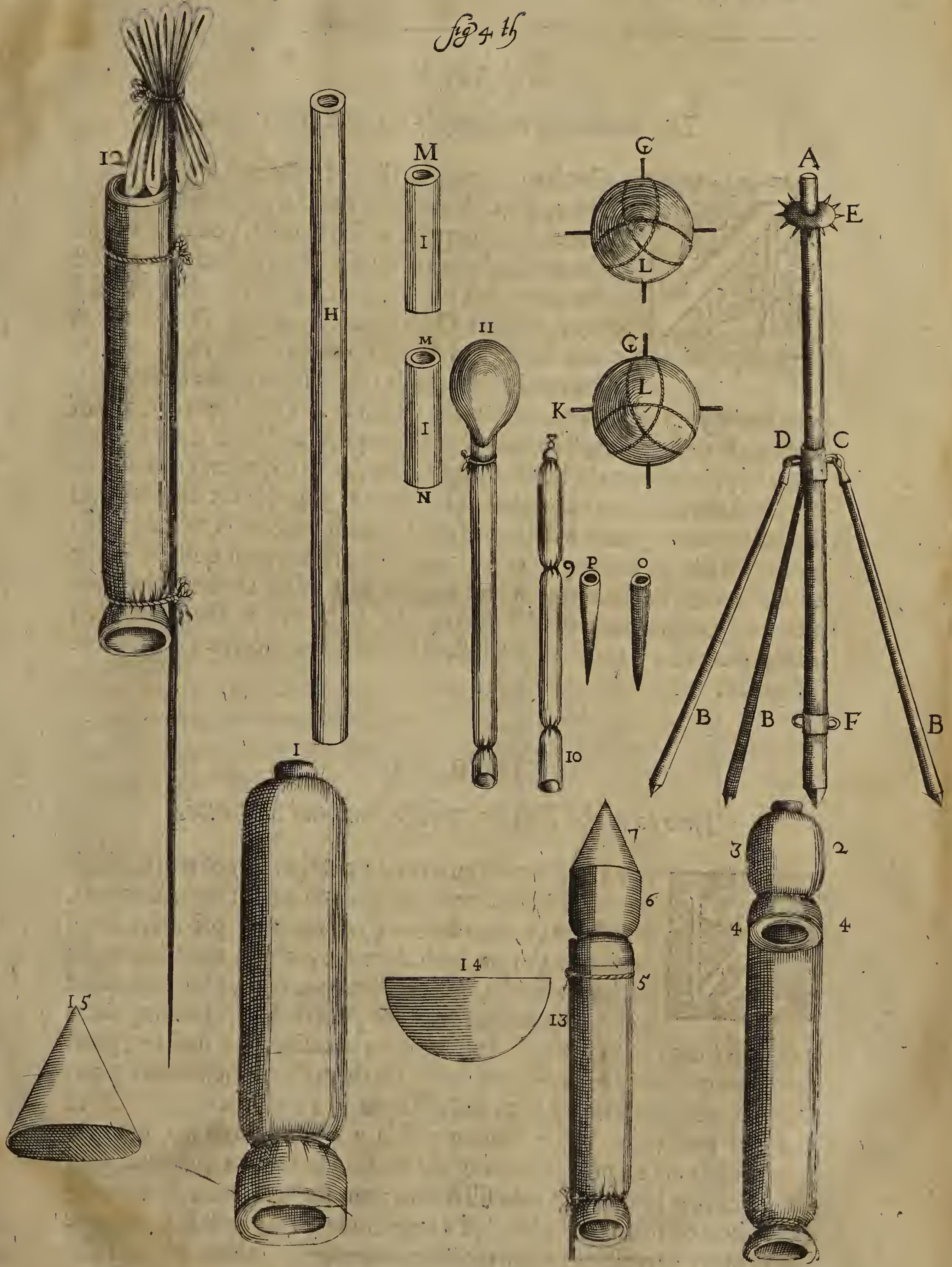
The deſcription of the ſtaffe for firing of Rockets.

A *The long ſtaffe to riſe through the ring.*
B B B *The three legd ſtaffe.*
C *The ring or hoope of iron for the long ſtaffe to ſlide thorow.*
D *A ſcrew to ſcrew faſt the long ſtaffe being raiſed.*
E *A piece of iron filed with notches to hang the Rockets on.*
F *The ring of wyer to put thorow the ſticke, which may be raiſed higher, or put lower, as occaſion proffers.*
G G *The deſcription of two ſtarres, with the priming,* K, *and the binding* L.
H *The deſcription of the trunke, or caſe, which is to be filled with your ſtar mixture, and ſo cut into ſhort pieces, as you ſee repreſented by the figures* I. I.

where

G.L.

fig 4 th



where the uper part repreſents the open end, and is marked with M, *and the under part which is glued, is repreſented by the letter* N, *ſo have you the ſtarres wholly deſcribed.*

CHAP: X.

The manner of making ſilver and gold raine.

NOw I will ſhew you the order for making of golden raine, which is after this manner; you muſt prouide ſtore of Gooſe quils, which hauing, you muſt cut off the quill as long as you can leaue it, and cut not off the other end, but leaue it cloſe as you ſee preſented by the letters O P. Figure 4. where O repreſents one filled, and P one empty. The receit which you make your golden raine, muſt be the ſame which you make your rockets of one ounce, which is to 1 l. of powder, 2 ℥. of coaleduſt: now hauing filled many of theſe quils, as I haue ſhewed you, they muſt be put on the head of your rocket, with the open ends downward, to the end they may take fire ſo ſoone as your rocket is ſpent, and ſo ſhall you ſee appeare a ſhower of gold, which by ſome is called golden raine: the like way may you make ſiluer raine, filling your quils with the mixture preſcribed for your white ſtarres, and uſing them in the ſame manner, you ſhall ſee them fall downe like a ſhower of ſiluer, which is called ſiluer raine; and thus much ſhall ſuffice to be knowne for this ſort of worke.

CHAP. XI.

How to make Fiſgigs, which ſome call Serpents.

NOw I will ſhew you to make another ſort of work, which we call Fiſgigs, or as the French name them, Serpents, which are made as followeth. You muſt provide a ſmall mould, of $\frac{1}{4}$ of an inch diameter, which muſt bee made without a needle, which when you have, you muſt make your caſes, as you make for your rockets, choaking them $\frac{1}{3}$ an inch from the end, which ſhall ſerue for occaſion as it ſhall bee proffered; when you haue made your caſes, fill them three inches with powder duſt, and then choake him, and after put in a little corne powder, to the end that your Fiſgig hauing plaied a while to and fro, hee may breake and giue a report; the uſe of the making ſo deepe a mouth at your firſt choaking is, that you may fill it with your ſtarre mixture; ſo that putting diuers of them on the head of a large rocket, they will firſt appeare like ſo many ſtarres, and when the ſtarres are ſpent, taking hold of the powder duſt, they will run wrigling to and fro like Serpents, and after a while they will giue ſo many reports, which will giue great content.

There are many works which are made of theſe fisgigs, which wee will ſpeak of in their places.

CHAP. XII.

How to make the reports or breakers.

NOW I will proceed to ſhew the manner of making reports to place on the head of a rocket; you muſt make a coffin of the ſize of your rocket of one inch, but you muſt rowle your paper a great deale thicker, to the intent your report may be the greater; alſo in choaking, the mouth muſt bee left very large, to the end that on occaſion you may fill it with ſtarre mixture; now when you have made divers coffins about three inches and better in length, you muſt leave a ſmall vent at the choaking, the bigneſſe of an ordinary wyer, which you muſt ſtop with a little paper, while you fill the coffin almoſt full, or within halfe an inch of the top, with good corn powder, turning down foure or five folds of paper, choak it cloſe at the top, and binde it round with thred, ſo you have your reports ready, againſt ſuch time you come to uſe them; which muſt be done in this manner: firſt bee carefull to pull out your ſtopple, which having done, fill the mouth with your ſtarre mixture, and ſo faſten him on the top of your rocket, alwayes putting a little paper about the top of your rocket, and in it put a little powder duſt, and ſo ſet on your report, and tie it faſt on, with the mouth towards the head of the rocket, ſo that the rocket having ſpent himſelfe, you ſhall ſee a large ſtar appeare, and when it is neere the ground, you ſhal heare the report; the order thereof you ſhall finde deſcribed in the fourth figure.

1 *Is the report ready finiſhed.*

2 *The rocket with the report on the head.*

3 *The report faſtned on the head of the rocket.*

4 *The paper to faſten the report to the rocket, which muſt firſt bee tied to the rocket, and likewiſe to the report.*

8 *Repreſenteth a fisgig finiſhed.*

9 *The choaking, as I have ſhewed, which muſt bee filled upward with corn powder.*

10 *The mouth of your fisgig, which upon occaſion you may fill with your ſtarre mixture, to put on the head of your rockets.*

11 *Repreſenteth a fiſgig, with a bladder, which muſt be tyed on to the head of them, in ſuch manner, that the neck of the bladder may go into the fisgig, and ſo be faſt tyed, that they ſtirre not; the uſe of them is, only to fire in your hand, (for being fired with a little powder duſt in the mouth of it) and ſo caſt away from you, it will fly to and fro without ceaſing, till it hath ſpent it ſelfe; and by reaſon of the bladder which is tied to it, it will not ſtick faſt to the ground, as others do which have no bladders.*

12 *Repreſenteth a cracker faſtned to the top of a rocket, ſo that the rocket having ſpent himſelfe, it taketh fire, and maketh many reports; the manner*

of faſtning him is thus ; you muſt firſt tie on your rocket, leaving the ſtick ſo much higher than the top, as will ſuffice to tie on your cracker, which muſt be tied about the ſaid ſtick, in ſuch manner, that the noſe of it may come into the head of your rocket, which being primed with ſome powder duſt, will take fire.

5 *Repreſenteth a rocket with ſeverall works, whether ſtarres, or ſerpents, and muſt be with a large coffin on the top, with his cap.*

6 *Is the coffin, which as I have ſhewed you, muſt bee ſomewhat bigger than your rocket.*

7 *Is the cap, which muſt be taper.*

13 *Sheweth the faſtning of the ſtick, which muſt not bee higher than your rocket, beſide the large coffin.*

All which I have formerly deſcribed, with the form and manner of making them, and their ſeverall uſes ; ſo that I have fully layd down the whole order of finiſhing a rocket for the ayre. Now it reſteth to ſhew what other works may bee done by the ſayd rockets, which are many ; for all ſorts of Fire works for pleaſure, do wholly depend upon them, except the water bals : and to proceed, I will firſt deſcribe unto you the order of making the runners on the line, which muſt bee done in manner following.

CHAP. XIII.

How to make a runner on the line.

YOV muſt provide a ſmall rocket mould, which muſt be halfe an inch or more, with rowlers, and rammers, according as I have deſcribed, ſave only that your mould muſt have no needle, nor your rammers hollow ; when you have provided them, make up your caſes, after the form which I have ſhewed you, ſome longer, and ſome ſhorter, which muſt be uſed as followeth ; your ſhort ones muſt be beaten up to the top, which muſt not bee above foure inches ; your longer, which muſt bee 5 ½ inches, muſt bee likewiſe filled foure inches high, and the reſt to be filled with corn powder within halfe an inch of the top, which muſt be choaked cloſe, and tied up ; the receipt for theſe ſorts muſt be only fine powder duſt.

Receipt for runners.

Now when you have driven them as is ſhewed, you may proceed to the finiſhing of them, which muſt be in this manner ; you muſt rowle a peece of paper about the head of your ſhorter rocket, (which muſt be left open to give fire to the next) which paper muſt be five inches broad, and being rowled on, you muſt firſt try if the mouth of your other rocket will eaſily go in, which when you have done, draw forth your other rocket which you tried, and binde your paper faſt to the top of your ſhort one, in ſuch manner, that foure inches may remaine hollow above the top of your rocket, which is to be filled with powder duſt, about two

inches

inches high; then put in your longer rocket, (with the mouth inward) ſo farre as it may touch your powder duſt; and tie the paper faſt about the choaking, as you ſhall finde deſcribed in the fift figure; after you have done this, proceed to the putting on of your cane, which muſt bee after this manner; you muſt firſt provide canes of ſuch bigneſſe as will fit your line, and cut them three inches long, or ſomewhat better, and then notch them with three notches, which when you have ſo provided, firſt tie it to your longer rocket which is to fire laſt, and then doubling them together, (in ſuch ſort that the noſe of the firſt come farther out than the tayle of the ſecond) tie it to them both; the reaſon of this is, becauſe otherwiſe, if it were tied to them both together, and not to one ſeverally, ſo ſoon as the firſt were fired, the cane will grow ſlack, and often fall off, and never make his return; and againe, if you ſhould not put the mouth of the one farther out than the tayle of other, it would fire your other rocket, and ſo make a confuſion: therefore that you may the better underſtand what I have ſhewed you, I have ſet down in this fift figure, the whole order of finiſhing a runner for the line.

A *Is the ſhort rocket.*

B *Is the longer, which muſt be beaten foure inches with powder duſt, and one inch with corn powder.*

C C *Your two rockets joyned, the mouth of one to the tayle of the other, in ſuch ſort, that there may be two inches between them.*

D *The coffin of paper which joynes thoſe two together, and muſt bee filled with powder duſt, lightly put in.*

E E *The rockets doubled, with the cane tied on.*

F *The cane, which muſt be three inches long, or more.*

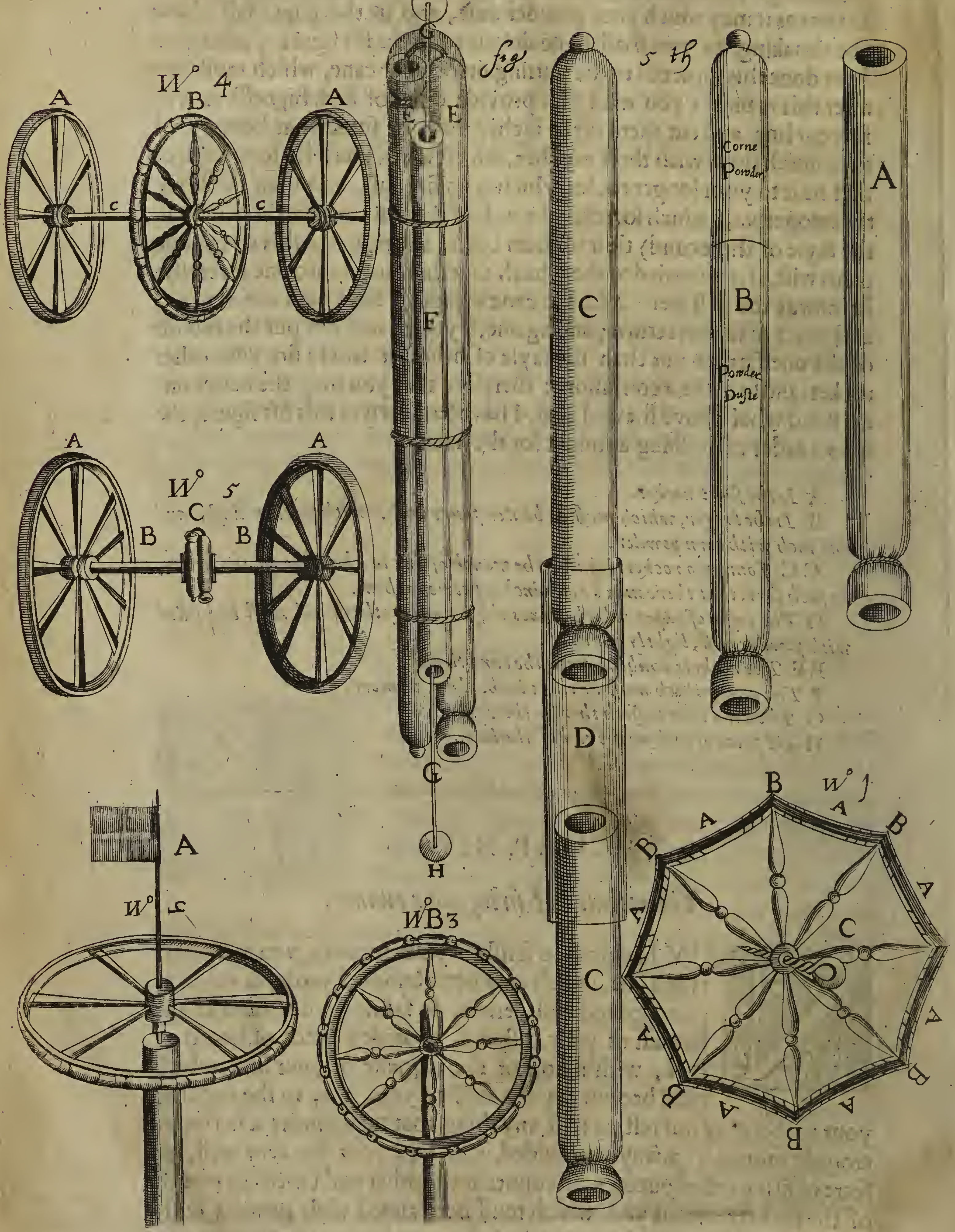
G *The cord that paſſeth thorow the cane.*

H *A peece of cork on the end of the line.*

CHAP. XIV.

The manner of firing your runner.

NOW having thus finiſhed your runners, you muſt provide a line, which may bee a hundred yards, or more, as your ground will permit, ſo faſtning your cord at the fartheſt of your diſtance, provide a peece of board or cork, with a hole of the bigneſſe of your line, which muſt bee put on the end of your line, to the end that your rocket may not reſt againſt any thing that may hinder it in the retrogade motion; alwayes provided, you ſope your line very well, for feare of firing: then put on your runner at the other end (with the mouth of the rocket towards you, which muſt bee primed with powder duſt) and pull your line very ſtraight, which is a great help to the running of a rocket, ſo faſtning your cord, you may fire your runner, which being well ordered, will run to the fartheſt of your line, making his return, with a report at laſt; ſo have you finiſhed the runner.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CHAP. XV.

How to compoſe a wheele.

NOW I will ſhew you the order of compoſing a wheele, which is a prime work, being well ordered ; of which ſome are movable, and ſome immovable : of the movable, ſome move horizontall, and ſome verticall, which is toward the zenith: and firſt of the movable wheele. You muſt provide a wheele of ſuch diameter as you pleaſe, which muſt be made into ſquares, according to the circumference of your wheele, and to proportion your wheele into a juſt number, you may allow five inches or better for every ſide, ſo that your wheele being 14 inches diameter, the circumference will be as 7 to 22, which is 44 inches circumference ; ſo being divided by 5, there will bee 8 ſquares, or more properly, 8 ſides, which will every one containe 5 inches and $\frac{3}{10}$, which is the cord of 45 degrees ; theſe ſides muſt bee hollowed with a groofe fitting your rockets, and at the ends of every ſide it muſt bee filed with notches, to faſten your binding that it ſlide not, when you binde faſt your rockets ; the form whereof you ſhall finde in the fift figure N 1.

Figure 5. N 1.

A *Sheweth the 8 ſides.*
B *The places of faſtning.*
C *The ſcrew which faſtneth the wheele to ſome poſt.*

Note alwayes, that as your wheele doth increaſe in diameter, ſo you muſt increaſe in the proportion, for that rocket which forces about a wheele of 14 inches, will not force a wheele of 18 inches ; nor that rocket which forceth one of 18 inches, will not force one of 24 inches ; but that you may come to a neere proportion, I will ſatisfie you ſo neere as I can ; firſt ſeek the diameter of your wheele, which imagine to bee 18 inches, I take the third thereof, which is 6, ſo that your rocket for 18 inches diameter, muſt be 6 inches long, and your wheele of 24 inches diameter, will require rockets of 8 inches ; yet as your wheele encreaſeth, you may alter this proportion by dividing it into more ſides.

Now having provided your wheele, with your rockets of a juſt ſize, you ſhall proceed to the finiſhing of it, which muſt bee after this manner ; you muſt joine your rockets one to another, in ſuch ſort as I ſhewed you for your runners, that is, with the mouth of the one to the top of the other, and ſo proceed till you have faſtned ſo many as will ſerve your wheele, alwayes leaving ſo much ſpace between each rocket, as may ſuffer them to come round about your wheele, without breaking any ; which when you have done, proceed to the tying of them on to your wheele, which muſt be ſo ordered, that you tie them where the notches are, to the end they faile not in firing, by ſliding off. In tying them on you muſt provide that you leave a little diſtance between the firſt and the laſt, which muſt be parted with a bolſter of paper well ſoaped, to the end that the firſt fire not the laſt, and ſo cauſe a great confuſion. Now for the manner of placing them, it is according to the workmans pleaſure, which muſt be either horizontall, or verticall; for the horizontall wheele you muſt provide a poſt faſtned in the ground, and ſcrew your wheele to the top of it; for the verticall, you muſt ſcrew it on the ſide of the poſt, ſo having fired them, you ſhall ſee one run parallell to the horizon, and the other to the zenith, as you ſhall ſee deſcribed in the fift figure.

N 2 *Repreſenteth the horizontall wheele.*
N 3 *Repreſenteth the verticall wheele.*

There are many other works which do wholly depend upon the wheele, of which I will ſet down ſome few.

CHAP. XVI.

How to make a ground wheele.

HEre I will declare unto you the manner of making a paire of wheels to run upon a plain horizon; provide two wheels, (ſuch as are ſpinning wheels) of one bigneſſe, which muſt bee faſtned to a ſmall axeltree, in ſuch manner, that they may not move about the axeltree, and on the middle of the axeltree faſten a fire wheele, which let bee ſo much leſſe than the other, that it touch not the ground, ſo that being faſt upon the ſame axeltree, it cannot run unleſſe it carry the other with it, which being ſet on a plain horizon, will run a great way without ceaſing: now that you may make it return, you may provide your wheele in ſuch manner, that it may have rockets on both ſides, ſo that one ſide being ſpent, it may give fire to the other, which being faſtned with their mouthes the contrary way, will make a return with a ſwift motion.

The form of theſe ground wheeles you may ſee repreſented in the fift figure, N 4.

A A *the two wheeles faſtned to the axeltree.*
C C *the axeltree on which the three wheeles are all faſtned.*
B *the fire wheele, which is repreſented of a leſſer diameter than the other two.*

CHAP. XVII.

Another manner of ground wheeles.

THere is another kinde of ground wheeles, and that is made ſo, that the wheeles may move about the axeltree ; but this ſort is not moved about by a wheele, in regard the axeltree muſt ſtand ſtill, but it is made after this manner ; you muſt make your axeltree ſomewhat broad about the midſt of it, and in that place you ſhall boare two holes, into which you ſhall put two rockets, which muſt bee ſo cloſe one to the other, that they may almoſt touch, and muſt bee ſo joined together, that one having ſpent himſelfe, the other may take fire, after the manner of your line work, to the end that being fired, it may run firſt one way, and then the other taking fire, may make his return by a ſecond motion : now the rockets which you put into this place, muſt alwayes bee proportioned according to the bigneſſe of your wheele, which if you perform according to the direction, you ſhall have your deſire.

The form of this wheele is expreſſed in the fift figure N 4.

A A *the two wheeles being looſe upon their axeltree.*
B B *the axeltree in which the rockets are put.*
C *the place for the two rockets to be faſtned, which muſt be ſo ordered, that the mouth of one may joyne to the tayle of the other.*

It is eſpecially to be noted, that theſe wheeles muſt run upon a very plain horizon, ſuch as the place for the game of Pall Maile at St. *Iameſes*, or ſome other very ſmooth place ; by reaſon that after the firſt firing of a rocket, his violence is over, and ſo a ſmall thing will ſtay him.

There are alſo ſundry ſorts of wheeles, which do perform divers offices ; ſome for diſplaying of a Coat of Armes, and others for ſetting of divers circular works, ſome of them I will ſpeak of ; and firſt I will ſhew the manner of making a horizontall wheele, which with one firing ſhall give divers reports, and ſhall ſtand fixed.

CHAP.

Chap. XVIII.

The manner of making a fixed wheele, which ſhall give divers reports.

YOV muſt firſt get a wheele turned by ſome workman, which muſt be two foot in diameter, (or as you pleaſe to augment or diminiſh your work) which muſt have a groofe turned out of the upper ſide, of halfe an inch wide, and likewiſe as deep; to which groofe you muſt have a peece of wood ſo fitted, that it may juſt ſlide in, which peece of wood muſt have ſo many ſmall holes bored in it as you will have reports about it, alwayes provided, you ſet them not too neere together, becauſe the firing of one may not beat down the other; when you have thus provided your wheele, make a conveyance or hollow trunck of paper which will iuſt fill it, which muſt bee filled with ſome of your ſlow mixtures for ſtarres, and then putting on the cap of wood ſo fitted with holes, and made very faſt with glew, pierce every hole into your hollow conveyance, ſo that putting a quill into every one, they may take fire, and to the ſaid quill faſten a report, ſo ſhall you have a peale of Chambers placed in a ſmall roome, which being once fired, will follow in order till the whole train be ſpent. The form you ſhall ſee expreſſed in the ſixt figure marked A.

Figure 6. A.

Chap. XIX.

How to make a fixed wheele which ſhall caſt forth many rockets into the ayre.

THere is likewiſe another ſort of wheele not much unlike to the former, which ſhall give fire to divers rockets ſtanding circular, the order differs nothing from the former, only you muſt make a hole for every ſtick to paſſe thorow, and therefore it muſt be made ſomewhat broader, which will effect the ſame as the other doth, by conveying fire from one rocket to another, till they bee all ſpent; the mixture for this conveyance ought to bee very ſlow, wherefore I adviſe you to take this enſuing, which is both ſlow and ſure:

Take Roch peter,	8 ℥
Sulphur vive,	4 ℥
Camphire,	½ ℥
Fine powder duſt,	2 ℥

Meale

Meale theſe ingredients very fine, and incorporate them, adding $\frac{1}{8}$ ℥ of Linſeed oyle, and $\frac{1}{8}$ ℥ of oyle of peter; theſe oyles muſt be dropped in by degrees, and ſo wrought up, till you finde your mixture bound like dough, which if you performe well, will bee both ſlow and ſure. The forme of this wheele is expreſſed in the ſixth Figure, by the letter B.

Figure 6. B.

Chap. XX.

How to make a fixed wheele, which ſhall caſt forth divers Fiſgigs, and likewiſe as many reports or breakers.

Cauſe a wheele to bee turned, with a grooſe on the top to put in your conveiance of paper; then fit on a peece of wood, as I have formerly ſhewed you, with ſmall holes to put in quils, which are for the firing of your reports, and muſt bee placed round about the uper part of your wheele; and on the ſide thereof, ſhall be made diuers holes of the bigneſſe of your Fiſgigs, (which ſhall be ſo pierced thorow to the paper conveiance) thoſe fiſgigs that are placed round on the ſide,& the reports on the top, one traine ſhall fire them all, and in firing, you ſhall ſee all the Fiſgigs flying round about, one after another, as the fire paſſeth to them; and for every Fiſgig which paſſeth out, ſhall bee fired a report, ſo that there ſhall be a continuall motion untill the whole traine bee conſumed: the forme of this wheele is repreſented in the ſixth Figure, by the letter G.

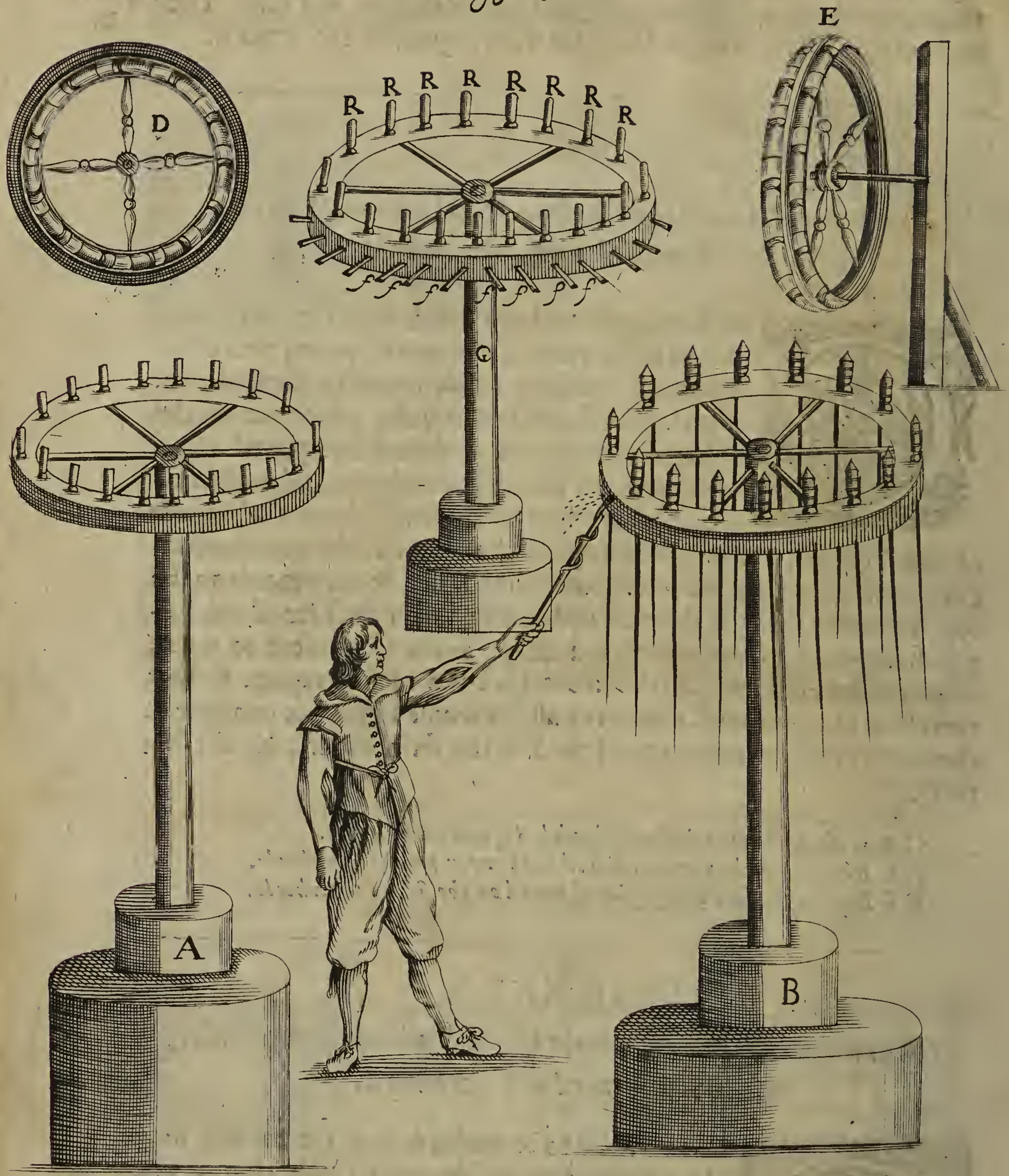
G *Repreſents the wheele finiſhed, with Reports and Fiſgigs.*
R R *Repreſents the reports, placed on the uper part of the wheele.*
F F *Repreſents the Fiſgigs placed round on the ſide of the wheele.*

Chap. XXI.

The manner of making a wheele which ſhall runne two waies, which is, forward and backward.

Cauſe a wheele to be made, ſo that the rockets may be placed on each ſide, with a hole thorow one ſide, which ſhall ſerve for a vent, paſſing from one ſide to the other, then place your rockets firſt upon one ſide, provided that the laſt rocket be placed over the ſaid hole, and boring a ſmall hole in one ſide of that rocket, put in a cotton wicke for priming, and let it come through your wheele, to the mouth of another rocket, which ſhall bee turned the contrary way; ſo that the wheele having finiſhed his revolution one way, may take fire on

fig 6 th


D
R R R R R R R R
E
f
G
A
B

on the other ſide, and ſo make a retrograde motion : and as you doe this, ſo may you after the ſame manner, make a wheele which ſhall runne direct, and continue twiſe ſo long as another of the ſame bigneſſe, which is by placing the rockets the ſame way on both ſides. The forme of this is expreſſed in the 6 Figure, by the letters D and E.

D *Repreſents the wheele with Rockets placed on the one ſide, the laſt rockets having a vent, to paſſe through to the other ſide.*

E *Repreſents the ſaid wheele finiſhed with Rockets on both ſides.*

CHAP. XXII.

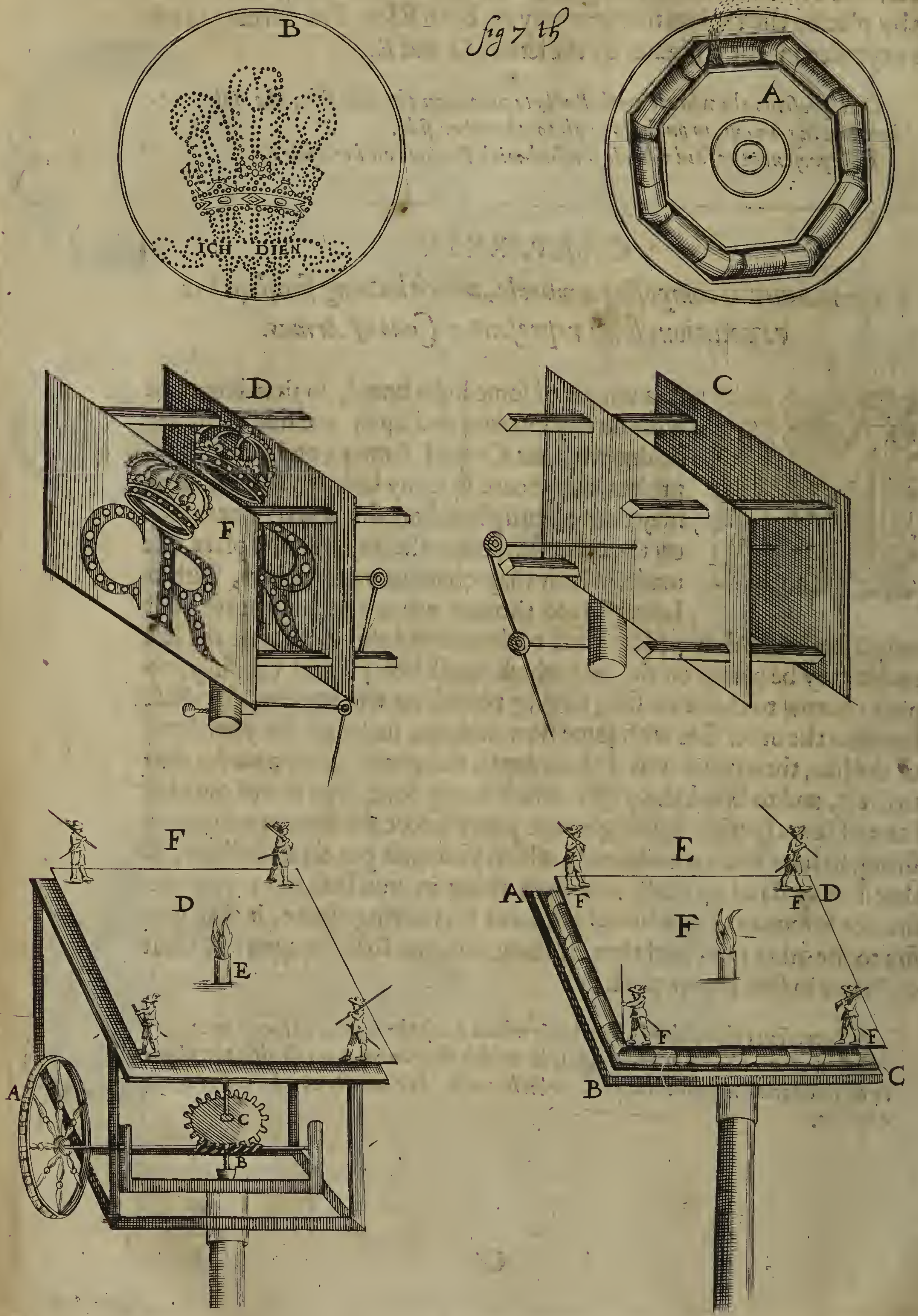
The manner of compoſing a wheele, which having finiſhed his revolution, ſhall repreſent a Coat of Armes.

MAke a wheele of ſome light board, ſo that it may be without any ſpoakes, and upon one ſide of it, let be drawne, that Coat of Armes you intend to repreſent, then boare ſo many holes in the wood, as may conveniently ſtand on the traced lines, then on the other ſide, neere the top, ſhall a place bee made, which may containe your rockets, with a hole pierced thorow where the laſt rocket muſt reſt. This being done, place your rockets round about, ſo that the laſt rocket may be placed on the vent which muſt bee primed carefully, to paſſe thorow to the other ſide; having placed on the rockets, fill thoſe holes on the other ſide with ſome ſlow mixture, ſuch as is for your ſtars, or the like, then cover it over with paper, and put in ſome powder duſt to fire it, and to break the paper, which being done, ſope it well over for feare of ſome ſparkes lighting on the paper before the appointed time of firing, ſo have you a wheele ready which you muſt put on an axeltree, ſo that it may ſtand verticall, and then firing it, you ſhall have your deſire, for ſo ſoone as the wheele hath ſpent his moving worke, it will giue fire to the other ſide; and then ſtanding ſtill, you ſhall ſee a perfect Coat of Armes in fire. Figure 7. A. B.

A *Repreſents that ſide of the wheele which hath the Rockets placed on it.*

B *Repreſents the Coat of Armes, in which the round ſpots ſignifie the places to be filled with a ſlow mixture, which muſt bee moiſt, to the end it keepe cloſe in.*

fig 7 th



CHAP. XXIII.

How to repreſent a Coat of Armes in fire, which having burnt a ſmall while, the ſaid Coat ſhall appeare in his perfect colours, and ſhall continue ſo a long while.

FIrſt cauſe a board to be made foure ſquare, of what dimenſion you pleaſe, which let be ½ an inch thicke, and cauſe a Painter or ſome drafts man to traſe out what Armes or other figure you pleaſe, upon the ſaid board; alſo let there be another which ſhall bee an inch and ½ thicke, and of the ſame breadth, which faſten to the other with ſome ſmall tackes, till you have boared ſo many holes as you have occaſion for, which ſhall be halfe an inch aſunder, and likewiſe halfe an inch boare; then boare your holes thorow your inch board, and let them enter an inch into the thicker planke, then make foure ſquare holes (one at each corner) in the thicker planke, to receive foure ſquare pieces of wood, which muſt be an inch ſquare, which glue faſt into foure holes oppoſite to the other in the thinner planke, to the end it may ſlide to and fro; then faſten an iron rod in the midſt of the thinner, ſo that it may come thorow the thicker planke, and be faſtened to a piece of wood, which may turne upon a joynt; to the end you may draw the thinner ſquare neerer as your fire conſumes, and muſt draw it too foot at leaſt; then provide a ſmall arrow of two foot long, and upon it rowle ſo much paper, till it fill your ſmall holes exactly, then fill ſo many as you have holes already provided in your ſquare, and put them thorow the thinner piece, and the ends thereof into the thicker, which let be glued faſt into the bottome of that, ſo that they may ſtand very faſt, and likewiſe let them paſſe ſo eaſily thorow the other holes, that the board may ſlide nearer or further, to or from the fire, at pleaſure; then fit a piece of paſt-board, ſo that it may come cloſe about theſe rouled lances, and may fit as exactly as the board doth at the other end; and let this come within halfe an inch of the firing end, then prime them all with quicke powder duſt, and cover it over with paper, which having performed, you are ready againſt ſuch time as you have occaſion to fire it, which muſt be after this manner, obſerving which ſide the winde is; ſtand on that ſide, and fire it at the lower corner, ſo that by the helpe of the winde, you ſhall have it all fire at once; which having burnt a while, will come to the paſt-board and fire it, ſo that falling away, there will be repreſented a Coat of Armes in colours, cloſe to your fire, which may be drawne in by one ſtanding behinde, ſo that it ſhall ſeeme alwaies to be ſtanding in one place, and the light not to grow ſhorter till the laſt. The forme of this frame is preſented in the ſeventh figure C D.

A *The frame without the ſcutcheon or letters.*
B *The backe ſide of the frame, with an iron rod paſſing thorow it, and faſtened*

to the other part, and the moving part which ſlideth to and fro as occaſion proffers.

D *The frame finiſhed ready to put in your lances.*

F *Repreſents the face of the frame, or thinner board.*

G *The inner part of the fixed piece, with holes boared in each alike, to put in your lances of rowled paper, filled with ſlow compoſition.*

CHAP. XXIV.

How to repreſent an antike dance, by the helpe of fire, which ſhall move in a circular forme.

CAuſe a board to bee made of two foot ſquare, ſo that one ſide of it may bee hollowed, (or grooved) to lay your rockets in; then cauſe another board to bee made of the ſame largeneſſe, ſo that it may fit cloſe on the other, the rockets lying betweene, and in the center of the ſame board, place a braſſe ſocket, which muſt paſſe thorow the other for the center prime to enter into it; then place your antike figures on the top of the ſaid board, with wiers paſſing thorow both; to the end they may be turned about in their Notion, by certaine primes placed in another bound, which muſt ſtand fixed; ſo that moving about the ſaid board, the pinned take hold of the wiers which come thorow, and turne them backward and forward; but in regard of the extraordinary violence of this motion, it will teare all in pieces, unleſſe you have a great care in making all things to runne very exactly, which muſt bee tried before you come to uſe it. The order of this is repreſented in the ſeventh Figure by the letter E.

A B C D *The bottome board, which ſtands fixed with a ſocket to put on a long pole, and hath a ſmall pinne ſtanding at each corner.*

E E E *The under board which moveth, in which is placed the rockets.*

F F *The uper board which is faſtened to the other, wherein the rockets are placed.*

G G *The wiers paſſing thorow both boards which are faſtened to the foot of each anticke.*

H H *The other wier which ſtand faſt in the fixed board, and are to turne about the antickes paſſing by them.*

CHAP.

CHAP. XXV.

Another way for making an anticke dance, which is not ſo violent as the former.

TAke one of your large ſort of wheeles, and faſten it on an iron axeltree, ſo that the wheele move the axeltree with his motion; then let there bee a ſcrew filed on the ſaid axeltree, which may bee fitted to a ſmall wheele of tenne teeth or thereabouts as you pleaſe, for the more teeth there is in the wheele, the ſlower it goeth, and eaſier, *et contra*: which wheele let it be ſo faſtened to an axeltree, (on which the board bearing the antickes muſt ſtand) that the fire wheele turning about verticall, may move your worke hirozontall, which will move ſo ſlow, that the fire wheele will be tenne times about, before your Motion will move once about, which being done neatly, will prove a worke of great contentment. The forme whereof is expreſſed in the ſeventh Figure by the letter F.

A *The fire wheele placed on an iron axelrree, and made faſt to it.*

B *The ſcrew made on the ſaid axeltree, or filed out of the ſame ſtuffe.*

C *The wheele which the aforeſaid ſcrew muſt be fitted to runne with, which muſt have ſo meny teeth, as you intend twe fire wheele ſhall move about for once of your motion.*

D *The ſquare board on which the antickes ſtand, and is faſtened to the axeltree which hath the wheele.*

E *A place for a light to burne ſo long as the worke indureth.*

F F F *The detentes or pieces which come thorow the board from the foot of each anticke.*

G G G *Certaine pinnes ſtanding upright in the fixed board, to the end that the others paſſing by may be turned about.*

CHAP. XXVI.

How to compoſe a Caſtle of fire worke with the manner of placing the workes in a true order.

PRepare a Caſtle of wood, or plate, of what largeneſſe you pleaſe, the which ſhall bee made foure ſquare, with round towers and battlements, and on the top or inner part of that worke, let there bee a leſſer tower of the ſame faſhion, with a Vane on the top, or ſuch a like Figure, which having provided, let there be a place made cloſe to the battlements, or within one inch of them, to lay your conveiances, (which let be of braſſe) which is for your reports, which muſt be placed betweene each battlement, and ſhall have little pipes of braſſe to give fire to each report, which muſt be ſcrewed into the great conveiance; which conveiance let be filled with your compoſition for rockets of 1 l. which is one pound of powder to 3½ ℥ of coale duſt; and by this meanes you ſhall have them all fire in order, without any confuſion; which having ſpent it ſelfe, ſhall give fire to another conveiance, which ſhall be placed further in, with a ſtrong wall betweene, ſo that the fire of one doe not offend the other: the uſe of this conveiance is to place divers rockets on, ſo that they may fire one after another, and ſhall take fire as ſoone as the reports are ended. Now for the foure large towers, you ſhal provide foure pieces of wood, turned and fitted to ſlide in exactly, and ſhall have divers ſmooth holes boared round thorow the out ſide of your tower, and the wood, till they meet with the hollow which paſſeth from the top to the bottome, or within an inch, which hollow ſhall bee one inch and a halfe diameter, and muſt be filled with a very ſlow mixture, (to the end it may continue as long as the worke is a burning) then place ſome Fiſgigs round in thoſe little holes, ſo that the mouths may be inward and primed, which will take fire one after another, and flye out on every ſide of your Caſtle, which will give great content: for the manner of firing this, I could wiſh, that it were firſt fired at the foure uper towers, and that through one of the corners, may bee a hole, which may goe to the uper conveyance, that ſo thoſe reports may fire next, and at the end of that conveyance ſhall be another to paſſe downe to the lower tier of reports, and at each corner of that conveyance ſhall be a hole to paſſe into thoſe lower towers, ſo that by that time all the reports are fired, the towers ſhall be all on fire; then at the end of that conveyance, (as I ſaid before) let your conveyance for your rockets bee placed, which taking fire orderly, will conclude the worke. Theſe and the like are for the pleaſure of princes and great perſonages, rather then for the vulgar. The forme of this Caſtle is laid downe in the eight Figure by the letter A.

B B B	*Expreſſeth the angles of the lower tower.*
C C C	T*he angles of the higher tower.*
D D	T*he conveiance that fires the reports.*
E	T*he conveyance paſſing to the rockets.*
F F F	T*he Fiſgigs placed round each angle.*
G G	R*eports placed on the battlements.*
H H	*Rockets placed farther in with a wall betweene.*

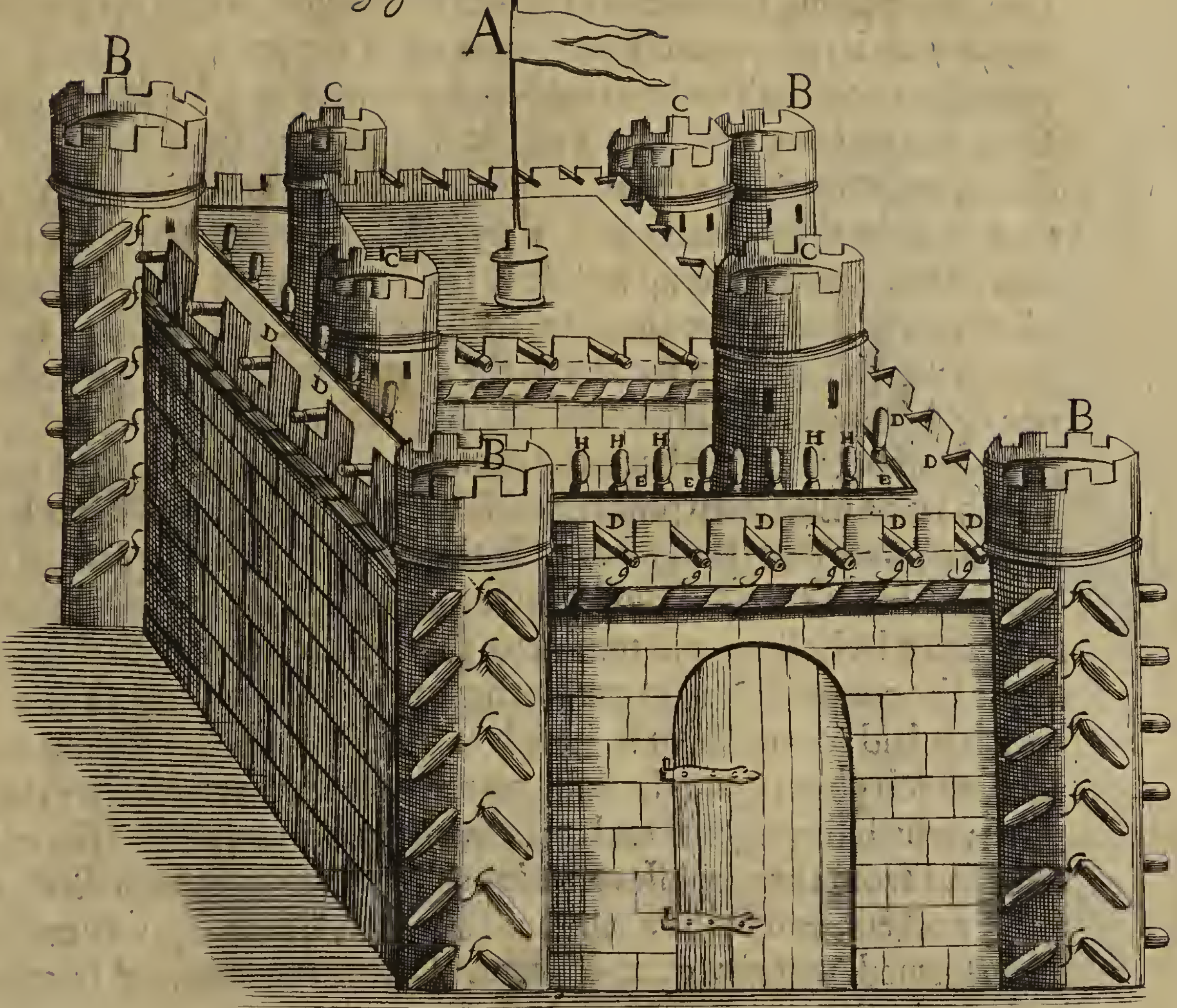
Chap. XXVII.

How to repreſent divers motions in a Caſtle of fire-worke.

Cauſe a frame to be made, placing thereon two Caſtles, that they may ſtand about twelve foot diſtant one from another; this frame muſt bee ſo ordered, that it may bee hollow underneath, which being done, let the dores of thoſe Caſtles bee placed the one oppoſite to the other, at each end of the ſaid frame, and juſt within each doore, let there bee a

rowler

figure 8


A
B
C
C
B
C
C
B
D
D
H H H
H H
E
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D
D
g
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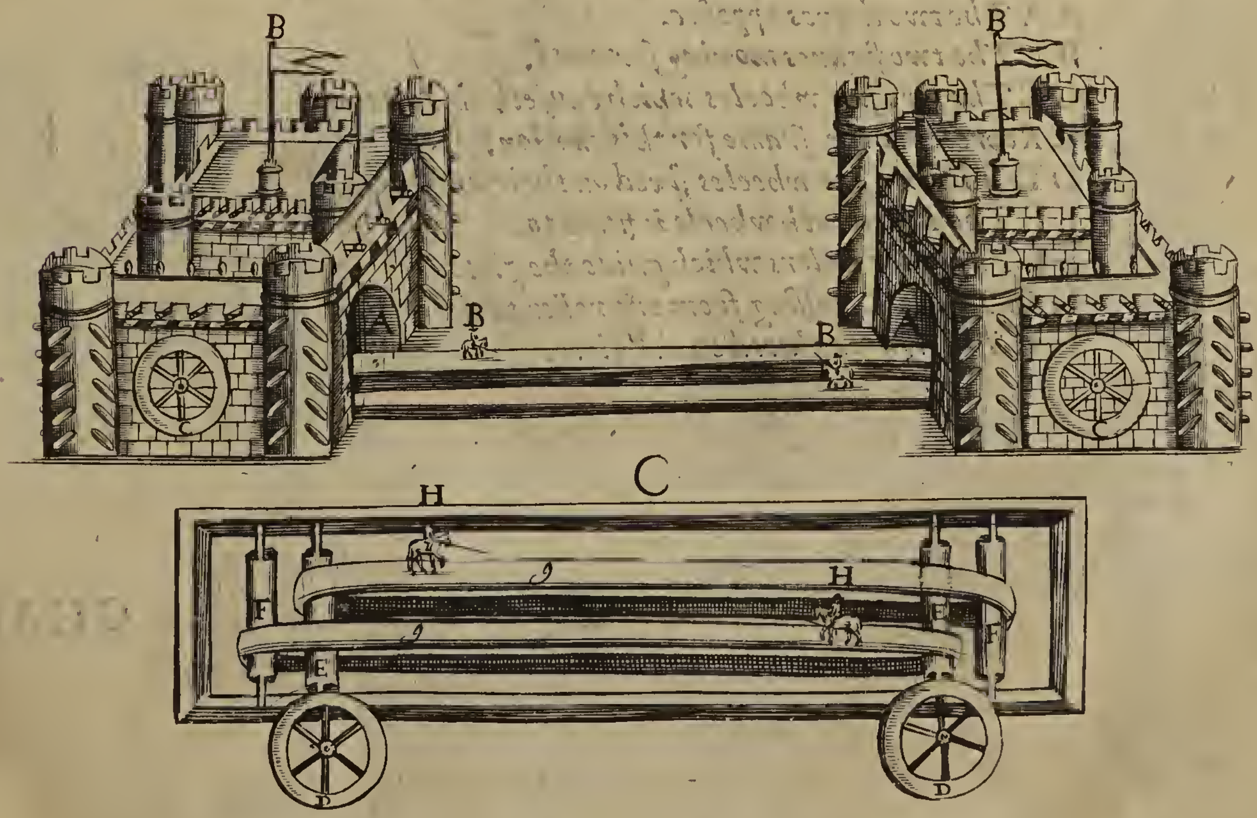
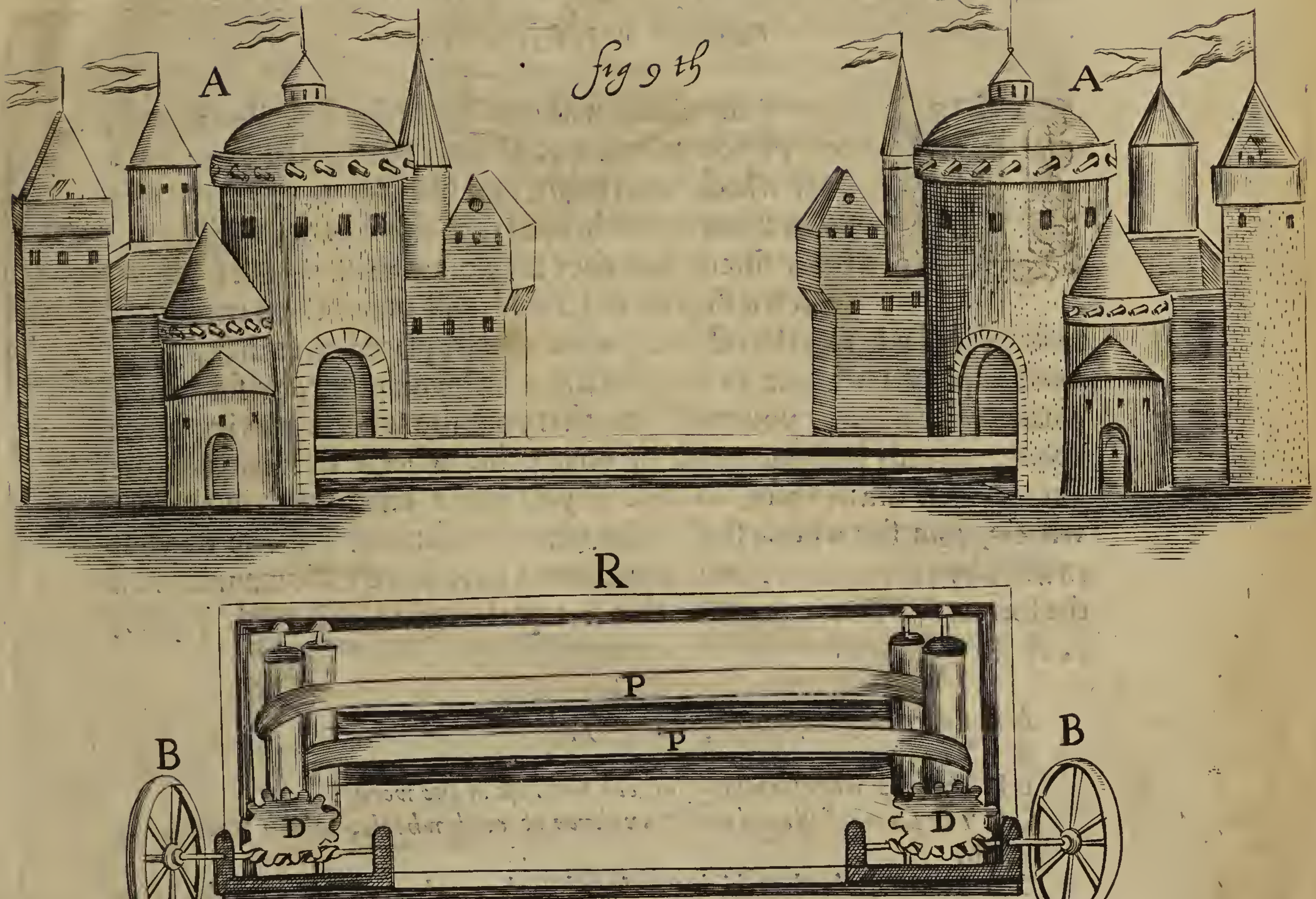
B


B
B
A
A
B
B
C
C
C
H
H
g
g
F
F
E
D
D

rowler of wood, foure inches diameter, which ſhall have iron pevikts or points to runne upon, that they may runne the more eaſie; and let thoſe roulers be put full of ſmall pinnes, and a girt put round about them, to the end that the rowlers moving circular, may draw the girt in a ſtraight line, then placing ſome antike Figures on the girt (ſo that they may move about with it) place your fire wheeles upon the axeltree of each rowler, providing another rowler at each end to make it ſlide more eaſily; ſo firing the ſaid wheeles, you ſhall ſee the antikes come one out of one doore, and the other at the other doore, meeting in the midſt; and when they come at the contrary end, they make a returne with their heads downeward, and come up againe at the ſame doores they went firſt out of, which will continue running, ſo long as the fire wheeles continue. And when the wheeles ſtand ſtill, the reports ſhall goe off on each tower one againſt another, which ſhall be done after this manner: let one of the ſpoakes of both your wheeles be hollow, and alſo part of the axeltree, which let be filled with powder duſt, and the rocket which fires laſt, ſhall be placed over that ſpoake which hath the vent, with a piece of cotton wicke to fire it, ſo will it runne downe thorow the axeltree, which (as I ſaid) muſt be hollow, and muſt have paper paſted over it, ſo that as ſoone as the fire comes there, it breakes thorow the paper, and fires a traine which is laid round about it, which traine paſſeth to a ſtanding conveyance, which goeth up to the battlements, and ſo giveth fire to thoſe reports; which having paſt each corner, the lower tower ſhall fire as it paſſeth, and from thence paſſe to an inner conueiance, which ſhall fire ſo many rockets, as may be well placed about it; this being well and orderly performed, will give great content. The forme whereof is expreſſed in the eight Figure, N B B.

B B	*Repreſents the two Caſtles ready fitted with the frame.*
A A	*The two doores oppoſite.*
B	*The two figures moving forward.*
C C	*The two fire wheeles which cauſeth this motion.*
C	*Repreſents the frame for this motion.*
D D	*The two fire wheeles fixed on their axeltree.*
E E	*The Roler each wheele is fixed to.*
F F	*The other Rolers which guide the girts.*
G G	*The girts paſſing from one roller to the other.*
H H	*The figures placed on the girts.*

fig 9 th



CHAP. XXVIII.

Another way to performe the ſame motions, and will not be ſo violent as the former.

Prepare your Caſtle with the frame fitted as the former, onely upon the axeltree of each rowler, let there bee a ſmall wheele with teeth, and likewiſe muſt there bee a ſcrew upon the axeltree of each fire wheele; which muſt be ſo fitted, that they may draw theſe wheeles about, which if they be well fitted, will move them with great facilitie;and whereas the other fire wheeles were placed on each ſide,theſe muſt be placed behinde, or underneath, which you pleaſe, or finde moſt commodious. Now you muſt note that your fire wheele moving once about, moveth but one tooth of your other wheele by reaſon of the ſcrew which drawes him, ſo that if you make tenne teeth in the ſaid wheele, your fire wheele ſhall make tenne revolutions for one of your rowler: by this meanes it will move after a farre more eaſie manner then the former. The manner of this is repreſented in the ninth Figure, A A R.

A A *Repreſents the two Caſtles ready placed.*
R *The frame for the motion.*
B B *Two fire wheeles which forceth the reſt of the worke.*
C C *The ſcrews faſtened on the axeltree of each wheele, which forceth the rowlers.*
D D *The two wheeles which are placed on the rowlers, and fitted to the ſcrew which force them.*
P P *The two girts on which the figures are placed.*

CHAP. XXIX.

How to repreſent the forme of an army of an hundred men marching, which ſhall preſent and fire at one certaine place appointed.

The ground of all theſe motions, are wheele workes; wherefore to proceed, you muſt provide a rowler of two foot long or more, which muſt be made and placed as the forementioned, to be drawne by two ſcrewes faſtened to the fire wheeles, in regard of the great weight they are to draw; alſo they muſt be ſomewhat large wheeles, with rockets of the ſecond ſize, which is five ounces in each rocket, placing about each wheele,20. or more, which having provided, you muſt likewiſe get you ſo many figures of ſouldiers, which muſt bee cut by a Carver, and ought to have the joynts looſe of the right arm of each, with a wyer or detent, to come down from the arm to the thigh of each, and likewiſe another, which may move that, and come to the foot; then place theſe on ſeverall girts, ſo that they may ſtand ten in ranck and file, and may be an inch between each, to the end they touch not at the feet, but every file may run in a ſeverall groofe; then placing ſmall peeces in their hands, which muſt bee ready loaded and primed, ſet them going, and within two foot of the end of their march, let there bee a crooked peece of iron ſtuck up, between each file, ſo that they may ſtand iuſt in a ſtraight line, to the end that when the ſouldiers move to that place, the detents or wyers are forced againſt thoſe pins which draw back the arm, and ſo puls the trickers of each Peece in that ranck, ſo that the whole ranck will fire altogether, if they bee well ordered; and as theſe have fired and paſt, another ranck moveth forward to the ſame place, performing the ſame; thus continuing till they have all performed the like, which being finiſhed, and all paſt, they ſhall make a ſecond march, orderly without firing. This being well and carefully ordered, ſhall not faile, and will be a very rare work to behold, but will prove extraordinary coſtly to the owner thereof.

The form of this you ſhall finde in the ninth figure, by the letter R.

E *repreſents the whole frame, with all the parts thereof.*

F F *are the two fire wheeles, being placed one at each end of the rowler.*

G G *the ſcrewes, being faſtned to each fire wheele, which move the two wheeles placed on the rowler.*

H H *the two wheeles being placed at each end of the rowler.*

I I *two rowlers, about which the girts do paſſe, which carry the whole body of men.*

K K *the girts on which the figures are placed, each girt having upon it ten, ſo that in the whole there will be an hundred.*

L *repreſents the figure of a man ſtanding in that poſture as hee ought to bee made.*

M *Is the detent which is faſtened to the right arme, and is to ſlide on a joynt, being faſtened to the thigh; ſo that it may move the arme.*

N *another detent which moveth the former, as it paſſeth by the pin.*

O *the pin which putteth by the ſaid detent as it commeth to it.*

q q *the ſaid pins in their right places.*

CHAP.

CHAP. XXX.

How to preſent muſick playing, (by the help of fire) with anticks dancing.

CAuſe an inſtrument to bee made, repreſenting the Virginals, and to it fit a Barrell ſet with ſeverall tunes, (as I ſhall ſhew you in another Treatiſe hereafter) then let there be a wheele with teeth faſtned on this barrell, and a fire wheele, with a ſcrew on the axeltree, as I have ſhewed before, which ſcrew may be ſo fitted, that as it moves round the barrell one way, ſo it may move another wheele, being placed on the ſide, which wheele ſhall move certain anticks, as the muſick playeth. This and many more may bee performed by the motion of wheele work.

The form of this is expreſſed in the tenth figure, by the letter A:

B *the fire wheele, fixed on the axletree, which moveth a ſcrew.*
C *the ſcrew, moving a wheele placed on the top of it, and another on the ſide.*
D *the wheele faſtned to a barrell ſet with tunes.*
E *the wheele placed on the ſide, which hath a pinion at the end of the axeltree, marked* F; *which carrieth about the wheele* G; *on which there are placed foure anticks: this wheele moveth foure pinions marked* H, *on which is placed foure other anticks.*
I *is the barrell ſet with tunes.*
K *the pallats which cauſeth the jacks to move.*
L *the jacks which paſſe up to the ſtrings.*
M *a board or frame covering the ſtrings, on which is placed the anticks.*

Having ſpoken ſufficiently of the order of motions performed by wheele work, I come now to ſhew ſome things that may bee done on the Line.

CHAP. XXXI.

How to make a Dragon, or any other creature to run on the Line, by the help of fire.

LET your Dragon be made either of paſteboard, or elſe of fine rods, ſuch as your Basketmakers uſe; which muſt bee made hollow, with a place in the belly to put in two rockets, and ſhall bee ſo ordered, that there may come a ſmall pipe from the tayle of one, to the head of the other; then make a place in the eyes, and mouth, to put into each hole fire, which ſhall be made up in rowled paper, and thruſt in; then on the top of the back let there bee faſtned two ſmall pulleys for the line to run in, which being done, your Dragon is finiſhed, to

firing,

firing, which muſt be thus; firſt fire it at the eyes, and mouth, (alwayes noting, that this receipt muſt be ſome ſlow mixture, ſuch as your ſtarres) then fire that rocket which is placed with his mouth toward the tayle of the Dragon, which will make it ſeem to caſt fire from thence, till hee come to the end of his motion; and then on a ſudden, as a creature wounded with ſome accident, ſhall return with fire coming forth of his belly, which being well ordered, will give great content.

The form of this you ſhall finde in the tenth figure, by the letter B.

B *repreſents a dragon to bee forced with rockets, which are placed in the belly.*

C *a place made to put in a rocket, which muſt be put in at the tayle, with the mouth of the rocket outward.*

D *is a conveyance from the tayle of that rocket, to the mouth of the next, which commeth out at the belly.*

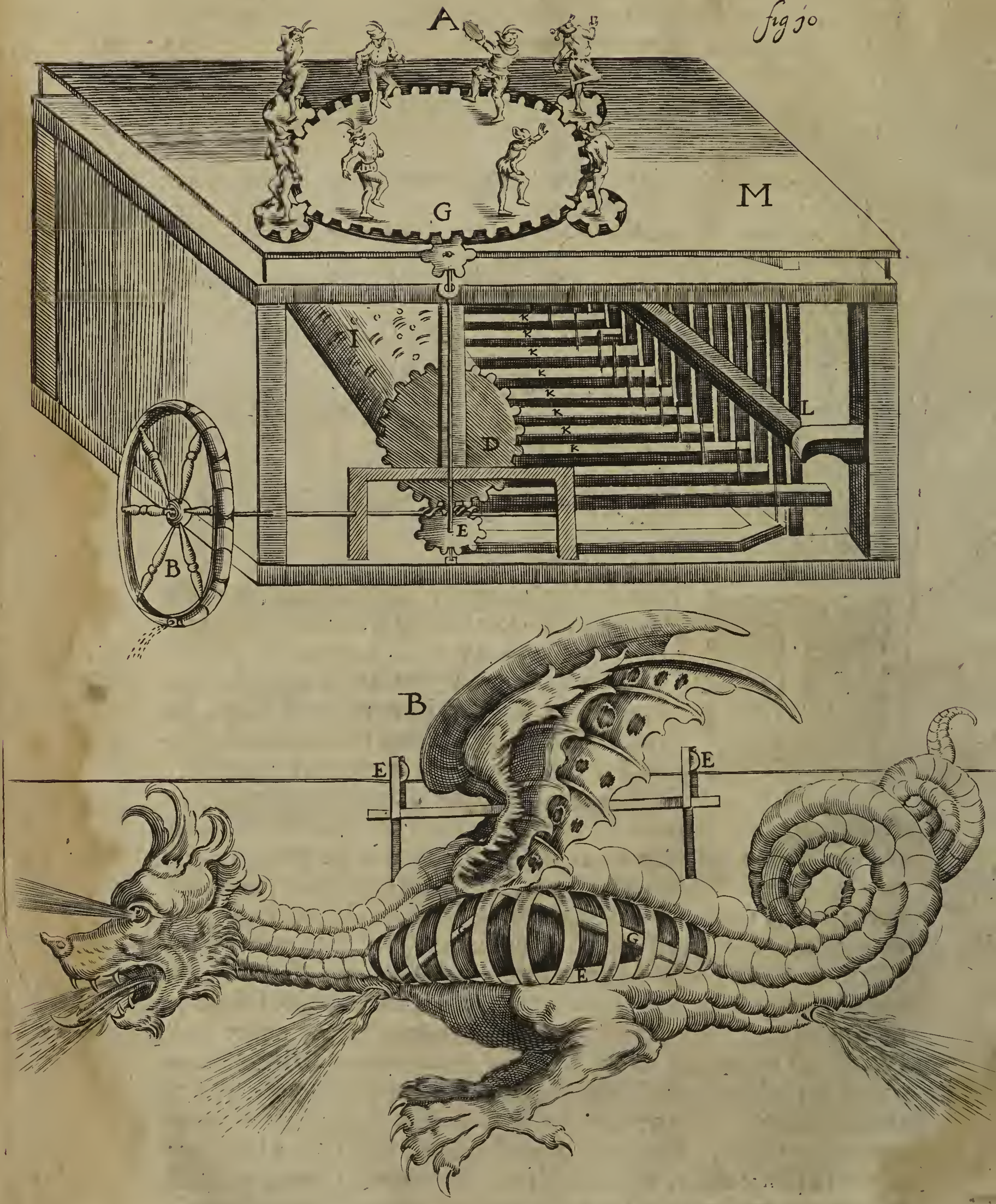
E E *two ſmall braſſe pullees, faſtned in a frame on the back, for the line to run in.*

Chap. XXXII.

Another way for making a fiery Dragon to paſſe on the line without the help of fire.

IN the former Chapter, I ſpake of a Dragon of a ſmall ſize, of a foot in length, or thereabout; now I come to ſpeak of thoſe of a greater magnitude, which cannot ſo eaſily bee forced with fire, in a ſtraight line, without ſome artificiall help; for Art muſt bee alwayes as a handmaid attending on Nature, to help her in her work; therefore having prepared a large dragon, you muſt make divers hollow truncks of wood, within the body, which ſhall bee to caſt out fire, and on a ſudden divers ſmall bals of fire, other times a great number of ſmall fisgigs. Now to make this run on the line, you muſt have a hollow trunck faſtned on the back, between the wings of your dragon, which muſt bee ſomewhat bigger than your cord, with a ſmall hole thorow each end; the uſe of thoſe ſmall holes is, to faſten a ſmall cord, which muſt be ſo faſtned, that one end thereof muſt bee faſtned at the head of the Dragon, and ſo paſſe over a pulley; (which pulley ſhall bee faſtned at the end of the line) and returning thorow that hollow trunck in the back, it ſhall be put over another pulley at the other end of the line, and ſo making a return, ſhall be faſtned to the hole in the hinder part of the trunck. Now one of theſe pulleys ſhall have a handle or winch to turn it about, which ſhall cauſe the dragon to move, and ſhall be a help to the drawing of it backward and forward at your pleaſure; after this manner you may form many works on the line, which otherwiſe cannot be done. The form of this is ſet down in the eleventh figure, by the letter A.

fig 30



A *repreſenteth the dragon ready finiſhed, with all his works.*
B C *the manner of the hollow trunck which the cord muſt paſſe thorow.*
B *the place for faſtning of a ſmall cord, which muſt paſſe over the pulley, marked* D.
D *the manner of faſtning that pulley which muſt bee at the further end of the line.*
o o o o *the manner of the paſſing of the ſayd line which is thorow the hollow trunck, and ſo over the pulley marked* E, *and then faſtned to the other end of the trunck marked* G.
F *a handle or winch belonging to one of the pulleys which maketh the dragon move forward and backward, as occaſion profereth.*
H H *the great line on which the dragon paſſeth, and is only for keeping it ſteaddy in the motion.*

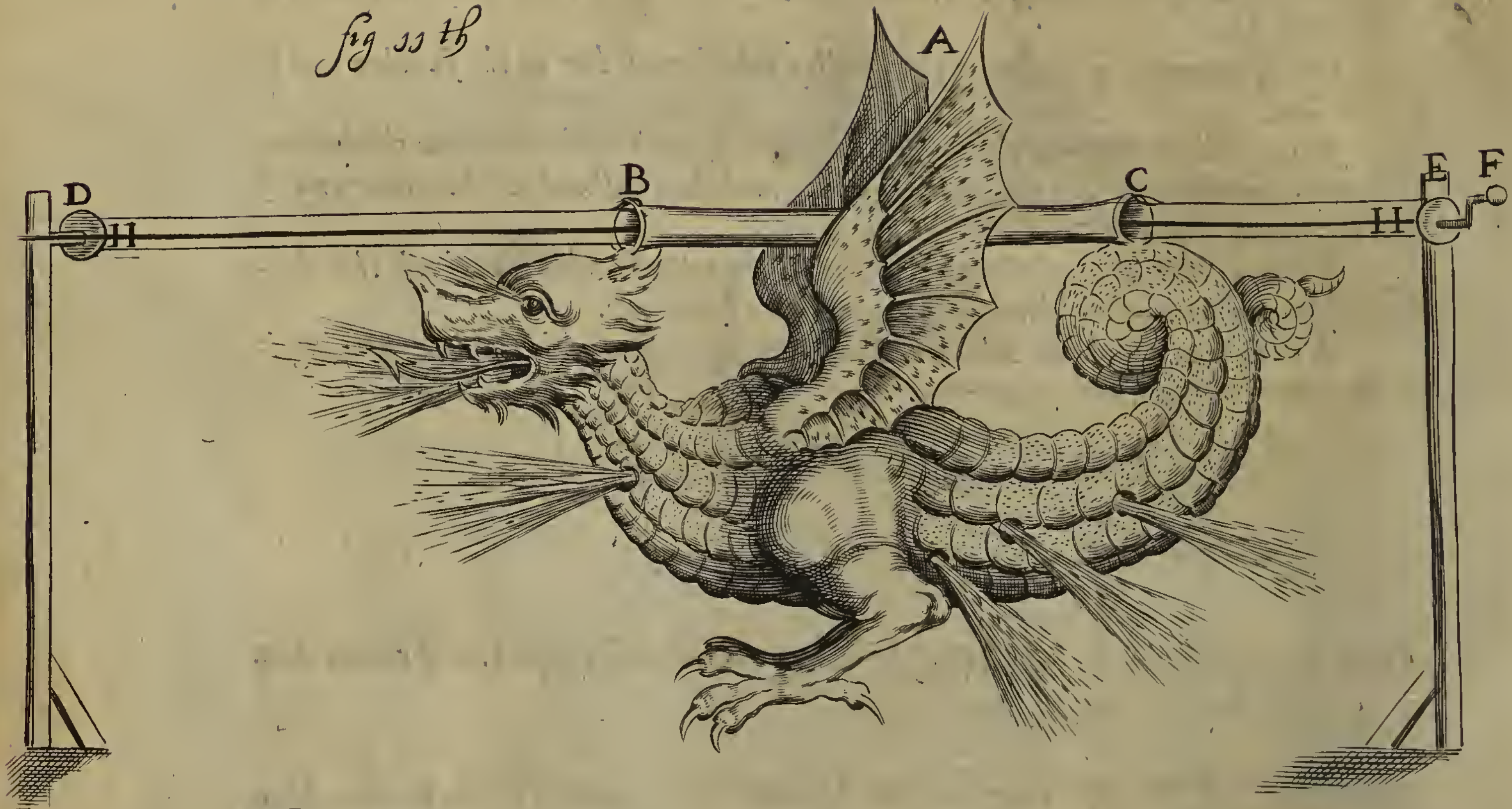
CHAP. XXXIII.

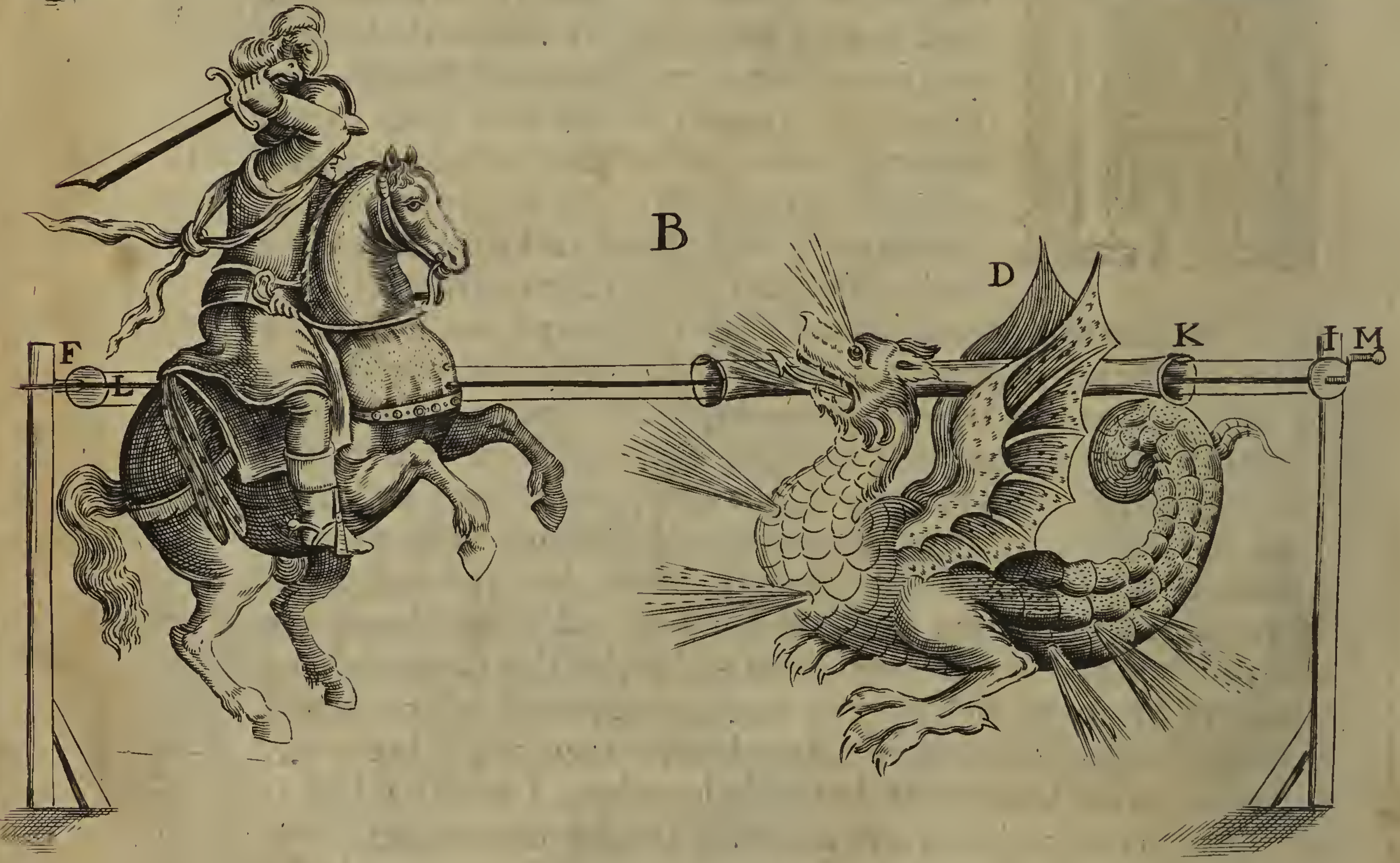
How to repreſent S. George *fighting with a Dragon in fire on the Line.*

HAving prepared your figures artificially made, you muſt make a hollow trunck thorow the body of each figure, for a great line to paſſe thorow, and likewiſe for a ſmaller line to draw them to and from each other; which muſt bee faſtned in this manner: at the breaſt of the dragon let one end of one cord be tied, which ſhall paſſe thorow the body of the George, and returning it about a pulley at the other end, faſten it to the back of the George, and at the breaſt of the George let another cord be tied, which ſhall paſſe thorow the body of the dragon, or a trunck on the back, and ſo returning about a pulley at that end ſhall be pulled ſtraight, and faſtned to the tayle of the dragon, ſo that as you turn that wheele, the George and dragon will runne furiouſly at each other; and when you pleaſe you may cauſe them to make a retreat, and come on againe divers times; but in all theſe works forget not to ſope your line extraordinary well, and likewiſe have a care that your work be not too heavy above the line, but that they may hang *equilibrio*, otherwiſe they will turn their heeles upward, which would bee a great diſgrace to the work and workman: there might bee much written upon this ſame ſubiect, but to the ingenious, I think it is ſufficient, they may order their works according to their own fancies; only here is the ground of the matter. The manner of this is repreſented in the eleventh figure, by the letter B.

C *repreſening the George.*
D *the dragon.*
E *the ſmall line faſtned to the head of the dragon, and paſſeth thorow the body of the George.*

fig 11 th





F *the pulley which guideth the ſaid line.*
G *the place of faſtning the other end of that line.*
H *another line faſtned to the breaſt of the horſe, which paſſeth thorow the hollow trunck of the dragon.*
I *the pulley about which it paſſeth, and is faſtned to the tayle of the dragon.*
K *the place of faſtning the ſaid line to the dragon.*
L L *the great line which guideth theſe two figures.*
M *the winch or handle faſtned to one of the pulleys, and is for the moving them forward or backward.*

CHAP. XXXIV.

How to make a trunck of fire, which ſhall caſt forth divers fire bals.

Provide a trunck of foure inch boare, and two foot long, with a hollow place in the bottom, of two inch boare, & as much deep, to the end it may be put on a ſtrong poſt; let there be a bottom left between the two boares, which ſhall be two inches thick, ſo that there will be twenty inches left for your work, which ſhall bee filled as followeth; firſt fill it with corne powder one inch, then put in your ball, which ſhall bee five inches and a halfe, and round about it put powder duſt, till you come to the top, then fill it two inches and a halfe with ſlow mixture, and on that two inches of corn powder: then put in another ball, and after it ſlow mixture, which ſhall be filled to the top, and ſo reſerve it for your uſe; note that you muſt turn three places for arming of it, which muſt be done either with iron hoops or elſe with cords, to the end the violence of your corn powder burſt it not; your upper ball ſhall be made after this manner: Having made ready a caſe of canvas, fill it with this mixture following.

Take 1 *l. of ſalt-peter.*
$\frac{1}{2}$ *l. of powder duſt.*
$\frac{1}{4}$ *l. of ſulphur vive.*
2 ℥ *of camphire.*
1 ℥ *of oyle of peter.*

Mix theſe very well, till it become ſomewhat tough, and then fill your ball, and arm it, leaving foure vents, into which you ſhall put foure ſmall ſticks, till ſuch time you have coated; the manner of coating is, to dip the ball in a mixture of pich, roſin, tallow, and ſulphur, but this is for bals of longer continuance; the coating for this ball ſhall be as followeth;

The receipt for coating,
½ l. of pitch.
¼ l. of verniſh.
1 ℥ *of ſulphur vive.*
2 ℥ *of powder duſt.*

Melt your pitch and ſulphur,and then poure in your verniſh and powder duſt, and while it is hot dip in your ball, and then caſt a little fine powder duſt over it, and ſo let it coole a little, and then dip it lightly againe, and ſo you have it ready ; when you uſe it, pull out your foure ſticks out of the vents, and fill them with powder duſt, and ſo put them in. The lower ball which is laſt fired, ſhall be full of ſtarres, with powder duſt intermixed, to break the ball, theſe ſhall be primed with cotton wick made of purpoſe,to the end it may not fire the bal til it be up a good heighth, and then to break into a ſhowre of ſtarres.

The receipt of the compoſition for the trunck.
1 *l. of roch peter.*
¼ *l. of fine powder duſt.*
½ *of ſulphur vive.*
2 ℥ *of camphir.*
1 ℥ *of linſeed oyle:*

The forme of this trunck is repreſented in the twelfth figure by the letter A:

A *repreſents a trunck ready finiſhed, with two bals.*
B *the ball which lieth uppermoſt, and is filled with ſlow compoſition.*
C *the lower ball, which is filled with ſtarres,*
D *the ſlow mixture at the top of the trunck.*
E *the corn powder to ſend forth the upper ball.*
F *the ſecond lay of compoſition.*
G *the powder for ſending forth the lower ball.*
o o o *three places left for arming the ſaid trunck.*
H *the bottom of the trunck, which muſt be two inches thick.*
I *a place left to put in a poſt of wood for it to ſtand on.*

Chap. XXXV.

The manner of making a Club, which being fired, ſhall caſt forth divers ſmall works, or fisgigs.

CAuſe a peece of wood to be turned of foure inches diameter, boare it one inch and a halfe from the top toward the bottom, only leaving a bottom of an inch thick, and likewiſe a place underneath to put in your club ſtaffe, the length of this trunck may be eighteen inches ; then draw a circular or ſpiral line, from the top to the bottom, which let bee in the manner of a ſcrew, every thred being an inch and a halfe aſunder, and in that line boare ſmall holes, (of the bigneſſe of one of your fisgigs) till you come within a quarter of an inch of the bot-

tom

tom of each hole ; and then pierce it with a ſmall piercer, till you come to the ſoule of the trunck. Having done this, make ſmall wyers fit to each hole, which let be faſtned, ſo that they may ſtand oppoſite to the ſaid holes, within two inches off from each hole ; the uſe of them is, to keep your fisgigs more upright and ſteaddy, which otherwiſe would bee apt to fall out, by reaſon they muſt bee put in very ſlack, or elſe they would not ſo eaſily come forth, when they ſhould, then load your trunck with the ſlow mixture appointed in the former chapter (for a trunck) and put in your fisgigs, priming each, and likewiſe each hole, and ſo firing it at the top, you ſhall finde them come forth one after another, as your trunck burneth downwards, which ſhall ſcatter abroad after a confuſed manner. The form of this you ſhall ſee in the twelfth figure, by the letters E I.

E *repreſents the form of the club without the wyers on, or any other work.*
I *is the ſaid club ready finiſhed with all his work.*
K *the wyers placed for to ſtay each fisgig in his place.*
L *the fisgigs placed.*
M *the place of firing.*
N *the club faſt put into the bottom.*

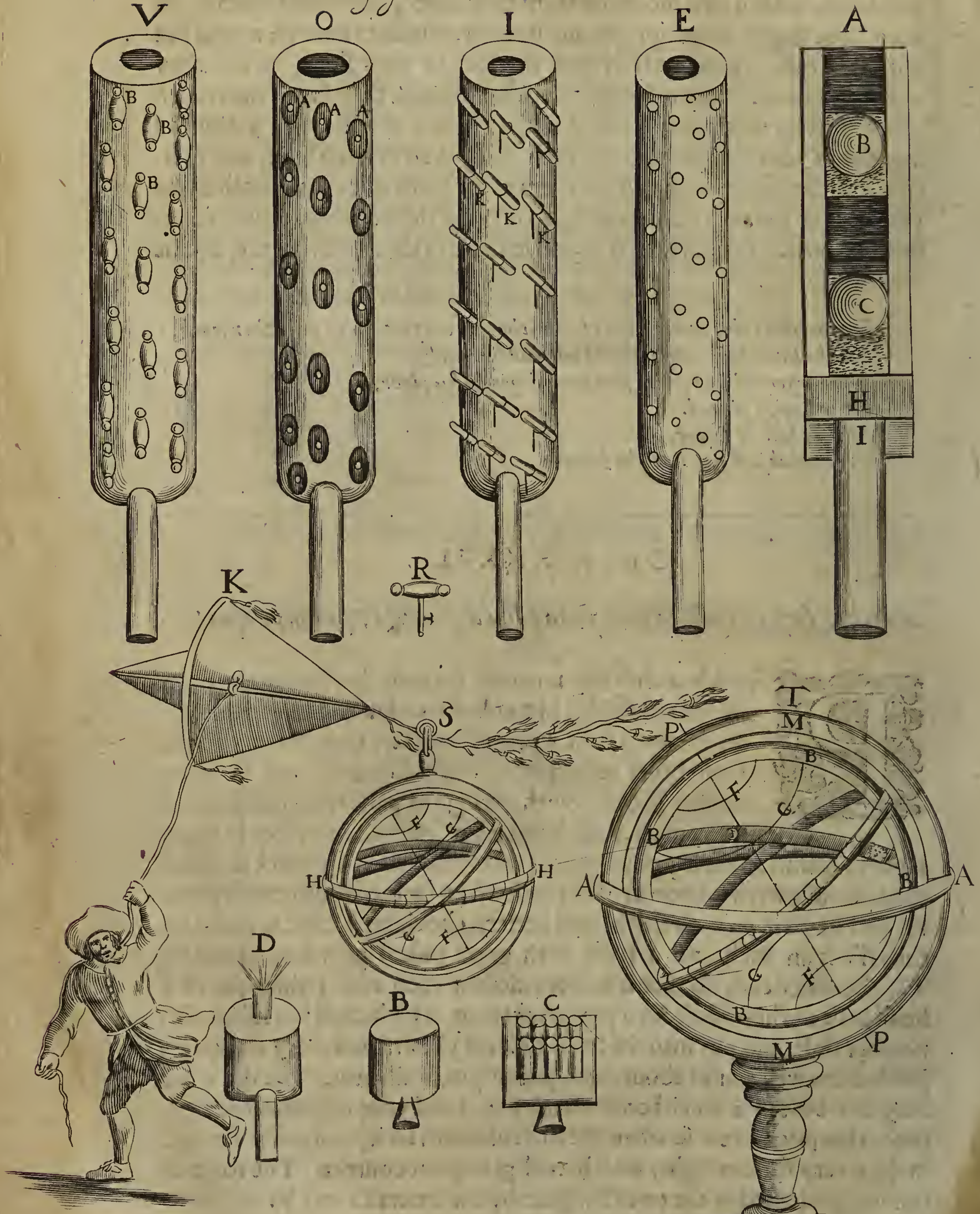
CHAP. XXXVI.

Another ſort of club, which being fired, ſhall give many reports.

PRovide a club like unto the former, but let not the holes be boared ſo big, but only that a ſmall quill or pipe may go in for a vent to every breaker, then having boared your holes at proportionable diſtance, cut ſo many hollow grooſes with a googe or halfe round chiſell, and fit them to your breakers of paper, and place ſo many reports round about it ; your reports or breakers for this work ſhall bee made as followeth ; upon a rowler of halfe an inch, rowle ſo much paper till you make it an inch thick, and better, choaking it cloſe at one end, then fill it an inch and a halfe with good piſtoll powder, choaking it at the other end, ſo that it be very cloſe at each end ; then pierce a ſmall hole in the middle for a pipe to enter in, which muſt bee filled with powder duſt, and put into the ſmall holes of your trunck, very cloſe, then pitch them well round about, and poure pitch all over, that the work may not be ſeen ; and likewiſe that it may hold your reports cloſe together ; this pitch likewiſe when the fire commeth to it, will eaſily fire, and make a very furious light, which will give great content. The form of this is repreſented in the twelfth figure by the letters O and V.

O *repreſenting the club without the reports placed.*
A *the grooſes to put in the reports, with a hole in the middle of each grooſe to put in the quill.*
R *a report with a quill ready to be placed in the club.*

figure 12



q *the manner of the quill which muſt bee put into thoſe ſmall holes to fire the reports.*
V *the club finiſhed, with the reports placed in it.*
B B *the manner of the reports as they are placed in the ſaid club.*

CHAP. XXXVII.

Another, which I call Iack in a box.

THE order of making this is after this manner; provide a box of plate, of what largeneſſe you pleaſe, which let be ſix inches deep, with a ſocket at the bottom to put in your ſtaffe, then putting in a quantity of corn powder or powder duſt, (in the bottom of the box) you ſhall fill it with fiſgigs, or ſerpents, leaving a place in the middle for a cane to go thorow to the bottom, which cane muſt be filled with ſlow receipt, in which you ſhall put a quantity of camphir, but no oyles, in regard of the narrow paſſage it hath to burn, without any other vent; then put your cane down, leaving it an inch above the box, and take a peece of thick paſtebord, cutting a hole for the cane to paſſe thorow, and glew it cloſe to the cane, to the end the fire paſſe not thorow before the appointed time; this paſtebord muſt bee of ſufficient breadth to cover your box quite over, then put it on a ſtaffe, and light your cane, which will appeare only like a candle, and after a pretty diſtance of time you ſhall heare a ſudden noyſe, and ſee all thoſe fiſgigs flying ſome one way, ſome another. This toy hath given great content to the ſpectators. The form of this is ſet down in the twelfth figure by the letters B C D.

B *the box without any thing in it.*
C *the fiſgigs placed in the box.*
D *the box finiſhed, with a cane paſſing thorow to the bottom.*

CHAP. XXXVIII.

How to repreſent the Sphere, moving in the ayre, without any other ſupportation.

CAuſe a Sphere to bee made ſomewhat light, and on the horizon place your rockets, and in the zenith or upper part, let there bee a pinne paſſe thorow the meridian, with a ring faſtned to it, to hang it by; this muſt bee faſtned to a large Kite, ſo as the Sphere may hang ſix foot under it, then faſten a match of cotton to the noſe of the firſt rocket, and light it, which having done, raiſe your Kite, and by by ſuch time as it is at the higheſt, the rockets ſhall take fire, and ſhall cauſe it to make divers revolutions in the ayre; you may place the midſt of this ſphere full of lights, which will ſeeme very ſtrange. The manner of this is repreſented in the twelfth Figure, by the letters K and S.

K *Repreſents the Kite which is ſupported by the ayre, and to which the ſphere is faſtened.*
S *The ſphere with all his circles, the rockets being placed about the horizon.*
H H *The horizontall circle about which the rockets are placed.*

Chap. XXXIX.

How to repreſent the ſphere, with divers circles, ſome moveable, others fixed.

Cauſe a ſpheare to be made, either of wood or mettall, the outward circles repreſenting the meridian circle with the horizon, the next within ſhall repreſent the Collurs with the equinoctiall, likewiſe the tropicks and zodiacke, whoſe poles ſhall be 23 degrees ½ from the poles of the world; by which meanes the eclipticke ſhall bee excentricke to the equinoctiall, (which ſhall be expreſſed) ſo that faſtening rockets about the equinoctials, and placing two ſmall lights in the zodiacke, the one repreſenting the Sunne, the other the Moone: you ſhall ſee them move about the earth, (which is placed in the midſt of the ſpheres) according to the rules of *Ticho Brahe*, and ſhall be according to their naturall manner of motion, which is continually riſing and ſetling in an oblique motion to the horizon and meridian, which alwaies ſtand fixed, and the reſt moving on the poles of the equinoctiall, although the eclipticke bee framed from its owne poales. The forme of this is repreſented in the twelfth Figure, by the letter T.

M *The fixed Meridian.*
A A *The Horizon.*
E E *The Equinoctiall.*
E E *The Eclipticke with the Sunne and Moone placed round.*
P P *The poles or axeltree about which all the inner circles move.*

Chap. XL.

How to make a halfe moone of Rockets to appeare in the ayre.

PRovide a piece of planke of two inch thicke, and turne it to a halfe round, then cut ſo many groves (from the center to the circumference) as you intend to place rockets about it, and on the other ſide, let there be rings for every rod to paſſe thorow, of which let one of each bee cloſe to the top, and another neere the end of each rod; and note that the planke muſt be ſo large, that the ends of all the rods muſt meet in the center; then prime each rocket with a quill filled with powder duſt, and put on the top of each grooſe, till you have placed your ſemicircle full; then having primed theſe grooſes, (which comes from one center to the circumference) paſte paper over them, and ſo let it ſtand till you fire it, which is done after this manner: ſet this ſame at the top of a poaſt, about foure or five foot from the ground, and prime it (at the center) with a little cotton wicke prepared for that purpoſe, and firing it, you ſhall ſee them take fire all at one inſtant, and ſo will flye circular, in the forme of a halfe Moone. The forme whereof is repreſented in the thirteenth Figure, by the letters A B.

A *Repreſents the forepart of the frame, in which one preſents the grooſes which paſſe to each rocket.*

D D *The quils filled with powder duſt, entring into the grooſes with one end, and into the rocket with the other.*

B *Repreſents the backe part of the frame.*

E E *The rings below.*

F F *The rings above.*

G G *The rockets placed on the frame.*

CHAP. XLI.

How to make a caſe of Rockets to riſe at once.

CAuſe a frame to bee made about two foot ſquare, with ſmall grooſes, two inches aſunder, and betweene each grooſe, boare holes for your rocket rods to paſſe thorow; you may make tenne grooſes, and in each grooſe you may place ten rockets, ſo you ſhall haue a hundred rockets in one of theſe caſes, which ſhall fire all at once; there muſt bee a croſſe grooſe made in the middeſt, and in the center of that grooſe, ſhall you fire it, which ſhall ſuddenly fire all over, being primed with a quicke traine of powder: the charge is great, and quickly ſpent, but it makes a very glorious ſhew.

The forme of this is repreſented in the 13 Figure, by the letters G D.

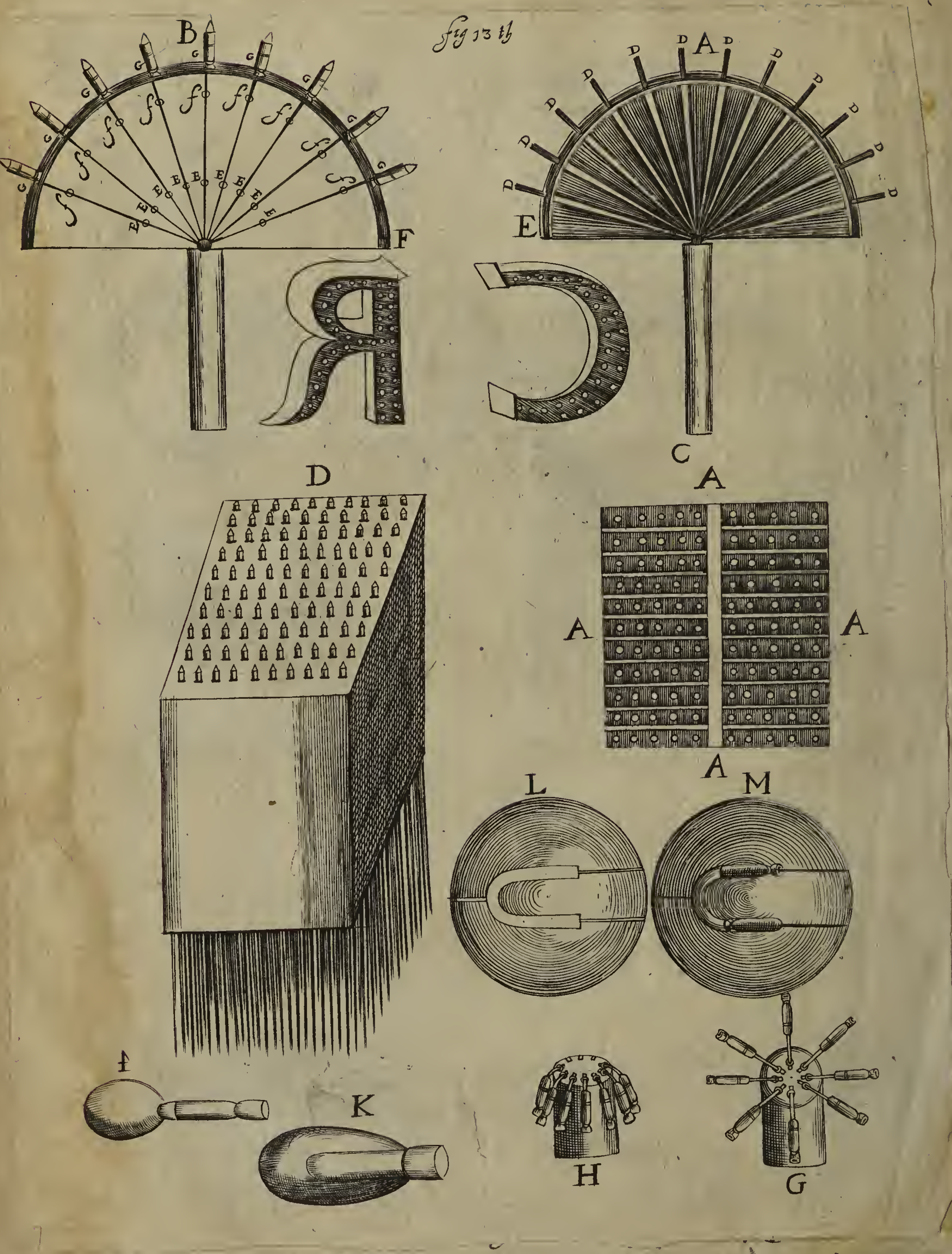


fig 13 th

A A A A Repreſents the ſquare of your caſe which is grooved.

The white ſtroakes ſignifie the grooſes which are to be filled with powder duſt, whereon the mouth of your rockets muſt be placed.

The other ſpaces expreſſe the holes where your rods paſſe thorow with a hole in the midſt to fire it at.

B Repreſents the caſe filled with rockets, their rods paſſing thorow, and is made long, to the end there may be another board at the bottome for each rod to paſſe thorow, that they may be kept more ſteady.

CHAP. XLII.

How to make letters, or any other figure appeare in the ayre, after the ſpending of a Rocket.

Having conſidered of what largeneſſe you will have your letters or figures, make them of paſtboard, leaving a hollow to put in ſmall quils, (which ſhall bee filled with a cleare and ſtrong mixture) then put in your quils, and glue them faſt in; and and ſo have you finiſhed it, till you come to uſe it. There is another manner, which is thus; provide a mould of plate, and cut out what letter you pleaſe in waxe, which having done, ſticke it full of quils in an orderly forme, and put this on the head of your rocket: note this, that theſe are onely to be uſed on very large rockets. The forme of theſe are repreſented in the thirteenth Figure E F.

The forme of the letters, the white ſpots ſignifying the place for ſo many quils filled full of ſlow mixture, to be placed in.

CHAP. XLIII.

How to repreſent a figure of the Sunne caſting forth his beames, in fire.

Cauſe a boxe to be made of plate, too inches long, and one inch diameter, which muſt be filled with your ſlow compoſition, and let the head be made with ſmall grooſes, croſſing the center, to the end you may lay in certaine ſprings of ſteele, ſuch as they uſe to ſmall Watches. Theſe ſprings ſhall bee about ſixe inches in length, and muſt be foure, ſo that both ends of each appearing, will make eight, which will make a circular forme, the boxe being the center; now to the end of every one of theſe ſprings, muſt be faſtened one of your ſmall Fiſgigs, & then bent up cloſe to the boxe, and ſo put into your coffine at the top of your rocket, with powder duſt and cotton to fire and breake the coffine, which as ſoone as it breakes, the ſprings will caſt forth your Fiſgigs, and make them ſeeme like the ſparkling beames of the ſunne, and the mixture in the center will ſeeme as the body of the ſame; this will continue a while, and then you ſhall ſee it breake with divers reports: This I had from a noble Captaine of this City, namely Captaine *Foreſtar*, who invented the ſame, the forme whereof is repreſented in the thirteenth Figure, by the letters L M.

L *Being the boxe with the ſprings faſtened to the top, with a Fiſgig at the end of each.*

M *The ſaid boxe finiſhed with the ſprings bent ready to put on the head of a Rocket; the mouth of each Fiſgig muſt come downe to the mouth of the boxe, and ſo be put with their mouthes all downewards.*

Having ſpoken ſufficiently of workes operating in the ayre, I will ſhew you ſomething which ſhall ſerve for ground workes.

CHAP. XLIV.

How to make a Rocket which firing it out of your hand, ſhall continually be in agitation on the ground ſometimes, and other whiles about in the ayre.

HAving prepared a Rocket, with a report in the head, tye it to a bladder, ſo that the end of the Rocket may come to the mouth of the bladder, and binde it over very ſtrongly, then firing it out of your hand, caſt it away from you, it matters not which way, for it will come to the ground, and by reaſon of the bladder, it cannot ſtay, but preſently rebounds upward, moviug to and fro, till it be all ſpent. There is another ſort, and that is a ſmall Rocket put into a bladder, and ſo blowne up round about it, and tyed about the necke of the Rocket. The forme of theſe are repreſented in the 13 Figure, by the letters G H.

G *The Rocket with the bladder at the taile of it.*

H *The Rocket in the bladder.*

CHAP: XLV.

How to make a ball which ſhall be in continuall agitation on the ground, till the fire is conſumed.

Cauſe a ball to be made of ſome light wood, which muſt be made ſo, as you may take it aſunder juſt in the midſt, then make on each ſide a hollow grooſe to lay in two rockers (joyned together after the manner of your runners) ſo cloſe up your ball faſt with glue; onely in the place where the two Rockets joyne, ſhall be a grooſe, which ſhall be paſted over with paper, that the ſecond rocket firing, may have a vent, otherwiſe your ball will ſerve but once. Then fire it, and you ſhall have your deſire. This is repreſented in the 13 Figure by the letters I K.

I *Repreſents a part of the ball, as it is ready to place in the Rockets.*

K *Repreſents the ball, with the Rockets placed in, ſo that the other ſide being joyned, makes a perfect round.*

C C C *The vents to each Rocket, which being cloſed, muſt have paper glued over them, that they be not ſeene.*

CHAP. XLVI.

How to make another ſort of Balles for the ground, which will be a long time in their motion.

Cauſe a ball to be made of ſome light wood, and let it bee hollowed, to make it the lighter; then fit in two pieces of wood, ſo that you may make both ſides equall, which pieces of wood ſhall be ſo grobſed, that you may lay in ſo many Rockets as may well be contained about it, providing that at the end of each grooſe or rocket, you may have a vent thorow your ball, then place in your rockets as I have ſhewed you for the wheele: which having done, glue them faſt in, to the end, that by the motion of the ball, they may not be diſordered, then ioyne your ball together, and glue it faſt with paper round about it, to the end the vents may be covered, onely leaving one open to fire it, ſo have you this ball finiſhed, which firing, will continue a long while in motion, Figure 36.

A *The ball turned hollow with grooſes to lay in your rockets.*

B *The other part of the ball, with the rockets faſtened in.*

C C C C *The vents at the end of each rocket.*

CHAP. XLVII.

How to make a Dragon iſſuing forth of a Cave, which ſhall caſt out much fire.

Provide a Dragon of ſome light matter, as wicker rods or the like, which let bee made ſo, that you may put into the midſt of the body, one of your greateſt rockets, and cloſe under the belly let there be a couple of wheeles, which ſhall bee ſo placed in the belly of the Dragon, that no part may bee ſeene, but onely the bottome which comes to the ground; and let the rocket bee ſo placed, that it may with traines fire all parts of the body, as the eyes, mouth, and all other parts; in which you ſhall place divers ſmall workes, which firing, ſhall flye out, and make a very great ſhew, which ſhall burne till all bee conſumed: this Dragon muſt be ſo placed, that he may come forth of a ſeeming cave; which firing on a ſudden, will make a great noyſe, by reaſon of the largeneſſe of the rocket, and the hollowneſſe of the cave hee comes forth of. The forme whereof is repreſented in the fourteenth Figure by the letter G.

G *The Dragon ready finiſhed.*
A *The wheeles on which it muſt runne, which muſt bee hid within the body.*
B *The rocket placed in the body of the Dragon, which cauſeth the motion.*
G *The vent which paſſeth to this rocket for the firing.*

CHAP. XLVIII.

How to make two Dragons to meete each other, from ſeverall Caves, which ſhall ſend forth their fire to each other with great violence.

Having prepared two Dragons (both of one ſize and weight) after the manner as I have ſhewed you in the former Chapter; it is requiſite that you know how farre they will runne, then place the Caves at ſuch a diſtance one from the other, that they may meete each other in the mid way, and that you may doe this the more neater, you ſhall have your ground laid with ſmooth boards that they may runne more free, and from the midſt of the walke, to the end of each Dragon; let there be a grooſe made in one of the boards, which ſhall ſerve to convey a traine to each, for the firing of them; then you ſhall be ſure, that if you fire it in the midſt, they will both take fire together; alwaies provided you make a conveyance of paper from the board to the taile of each Dragon, or to the mouth of each rocket, which being fired once, they

ſhall

ſhall meete, and caſt forth their fire at each other with great violence. The forme of this is repreſented in the fourteenth Figure, by the letters A A.

A A *The two Dragons ready to runne.*
B B *The two great rockets which forceth them.*
C C *The wheeles which each Dragon runneth on.*
D *The midſt of their walke, with the groofe to each rocket.*

There are divers other workes which may bee performed after this manner, which for brevity ſake I will omit.

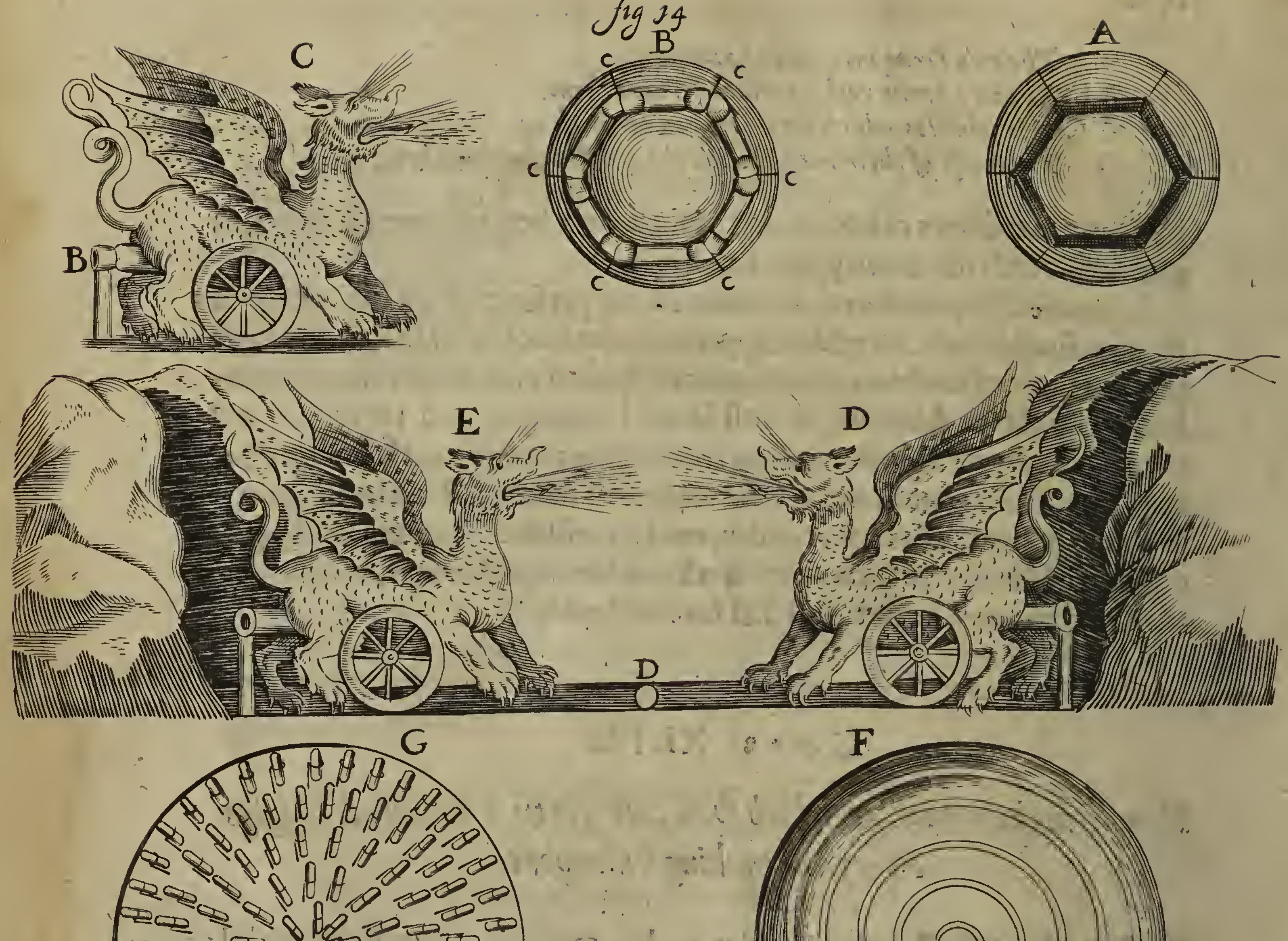
Likewiſe there are divers motions to bee performed by the action of man, as ſingle duels, to which appertaine the Buckler of fire, and likewiſe the Curtlax or Fauchion, the manner of which hath beene formerly deſcribed by divers Authors, almoſt in all languages, and therefore will ſeeme more then requiſite to relate thoſe things ſo large as they might be; for what action cannot man performe by his induſtry? and therefore I leave every man to his owne order, onely I will ſhew you the making of one ſort of Bucklar, which as yet hath not beene performed, and likewiſe the Fauchion or Curtlax, and firſt for the Bucklar.

CHAP. XLIX.

How to make a Bucklar which ſhall caſt forth a hundred Fiſgigs, every one making his report.

Cauſe a Bucklar to bee made of ſome light wood, which let be about two foot in diameter or more, as you pleaſe, then cauſe a groofe to bee cut in it, from the center to the circumference in a ſpirall or ſerpentine forme, then fill that groofe with one of your ſlow compoſitions, ſuch as hath neither oyle nor gummes, by reaſon the fume thereof may not offend the Bearers; when you have filled it, fit in pieces of wood, which may have holes to receive a quantity of Fiſgigs, let every one bee two inches aſunder, and let there be wyer rings to every one of your Fiſgigs to hold them ſteady, that they fall not out, till ſuch time they fire, then put in your Fiſgigs, into every hole one, till you come to the center, and then ſhall you have a very great breaker, ſo that firing it at the circumference, every Fiſgig will flye out as the fire comes to it, and will flye againſt his adverſary combatant, till they come both to the center, and then will they give a great report, and ſo end. The forme of this is repreſented in the 14 Figure by the letters F G.

F *Repreſents the Buckler as it muſt be grooved.*
G *Repreſents the ſame finiſhed, with the Fiſgigs placed about it.*
H H *Repreſents the manner of uſing the ſaid Buckler, with the Fauchion.*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CHAP. L.

How to make the Curtlax, Cimiter, or Fauchion.

PRepare a Curtlax either of wood, or plate, which let bee hollowed from back to edge, three inches, and let it bee ſo thick, as it may ſerve for your ſmalleſt fisgigs, then you ſhall have a peece of paſtebord ſo fitted on the back, that your work may be cloſe covered, only holes left for the ends of your fisgigs to come forth ; then you ſhall lay in your lances of fire (which is nothing elſe but your ſlow compoſition for ſtarres put into hollow truncks of paper made on an arrow) and between every lance you ſhall put two or three fiſgigs, which ſhall fly out ſo ſoon as the fire commeth to them ; having done this, you have finiſhed your Fauchion, which muſt bee fired at the point, and ſo burn downward towards the hilt. This hath been formerly ſet forth by Monſieur *Thybaviel* a French Author, and ſince by divers others. The forme whereof is repreſented in the fourteenth figure, by the letters I K L.

I *repreſents the Fauchion prepared, with a groofe in the back.*
K *repreſents the Fauchion, with holes to put in the works.*
L *repreſents a Fauchion wholly finiſhed, with the fiſgigs placed as they ought to ſtand.*

Having ſpoken ſufficiently of land works, I will come in the next place to ſhew the making of ſome works to bee acted on the water ; and firſt of all I will ſhew you the making of the water bals.

CHAP. LI.

How to make a water ball, which ſhall burn on the water, with great violence.

FIrſt, having conſidered of what bigneſſe you will have your ball, take the circumference and halfe it, and of that halfe make a circle, which cutting out in ſtrong canvas, ſhall bee halfe a caſe, ſo that ſewing two of them together, they ſhall make a caſe according to your deſire ; *For Example* ; I have a ball to make whoſe diameter is ſix inches, then the circumference (being as ſeven to twenty two) muſt be $18\frac{6}{7}$, ſo the halfe will bee $9\frac{3}{7}$, which muſt bee the diameter of your cloth, and muſt bee made true round, ſo that ſewing two together, and making a caſe thereof, it ſhall bee almoſt ſix inches, which the arming will make good ; having made your caſe, you ſhall proceed to the filling of it, which ſhall be done after this manner ; you ſhall firſt put in three or foure good

ſpoonfuls

ſpoonfuls of your mixture, and then with a ſtick (made round at one end) force it cloſe together, and ſo continue filling it, and between every filling put in your ſtick, and force it together, rounding it continually in your hand, till ſuch time you have finiſhed it; which having done, ſew it up cloſe, and then arm it with ſmall cord, which is called marling; after you have done that, you ſhall coat it with a quantity of roſin, pitch, and tallow diſſolved, and ſo your ball dipped over in the ſame, providing alwayes that you leave two vents to fire it, which ſhall be pierced a third part into your ball, and muſt bee ſtopped with ſmall ſticks, till ſuch time you come to uſe them, then pulling forth the ſticks, fill the two vents with fine powder duſt, and firing it, caſt it into the water, and you ſhall have your deſire; you muſt alwayes let your ball be thorow fired before you caſt it from you.

A receipt for this ball.

Take 1 *l. of powder.*
8 ℥ *of rochpeter.*
4 ℥ *of ſulphur.*
2 ℥ *of camphir.*
1 ℥ *of oyle of peter.*
1 ℥ *of oyl of linne.*
½ ℥ *of oyle of ſpike.*
2 ℥ *of colophonia.*

The forme of this ball is repreſented in the fifteenth figure by the letters A B.

A A *the canvas ready cut, to be ſewed together.*
B *the ball finiſhed.*
C C *the two vents.*
D *a peece of cord left to hold it by whilſt you coat it, and likewiſe to hang it up being finiſhed.*

CHAP. LII.

A water ball which ſhall ſhoot forth many reports.

Cauſe a ball to be made of wood, which ſhall bee in two peeces, ſo that you may joyne it cloſe together at pleaſure; this ball muſt have ſmall holes boared round about it, to put in your quils, which muſt fire your reports; the reports or breakers ſhall bee made of paper choaked at both ends, and primed thorow the midſt; they ſhall bee faſtned round with pitch, and ſo covered round about, that no water may paſſe in; you ſhal fil this bal in two halfes, to the end you may force it very cloſe together, and when it is filled, glew it faſt, and arm it well with nealed wyer, then put in your breakers, with a quill which

which ſhal enter into the bal, and likewiſe into the breaker ; the forme whereof you ſhall ſee in the fifteenth figure, by the letter C. The receipt for this bal muſt be ſomewhat ſlower than the laſt, by reaſon of the many vents it wil have, as the reports paſſe away.

The receipt for this ball.

Take 1 *l. of rochpeter.*
4 ℥ *of powder duſt.*
3 ℥ *of ſulphur vive.*
2 ℥ *of camphir.*
1 ℥ *of linſeed oyle.*
2 ℥ *of roſen.*
1 ℥ *of oyle benedick.*

Powder that which is to bee powdered, and incorporate them well together, and by little and little ſprinckle your oyles, til you have wrought it like a paſte, and then make uſe of it ; your quils which you prime with ſhal be filled only with powder duſt, to the end it fire ſuddenly before the quil come to ſhrink up, which wil be with a ſlow mixture.

A *the mouth of the ball where it is to be fired.*

B B B *the reports or breakers, being made of paper, and filled with corne powder.*

C C C *the quils, which are primed with powder duſt, and ſerve for firing the reports.*

D *the hollow of the ball, being filled with the ſlow compoſition.*

CHAP. LIII.

How to make a Water ball, which, after a certaine time of firing, ſhall caſt forth divers rockets into the ayre.

Prepare a ball of wood, of eight inches diameter, and boare a hole in the midſt (of an inch and a halfe) and let it come within one inch of the bottom, and round about that great hole you ſhall boare eight ſmaller holes of an inch, ſo that they may bee fit for eight rockets ; theſe holes ſhall be an inch from the greater, and ſhall all meet in one at the bottom ; wherefore you ſhall cut off the bottom of the ball, and fit another to it, which may be ſo hollowed, that your mixture may be conveyed to all the rockets, then faſten on the bottom (having filled it with your mixture) and put in your rockets, with the mouth of each rocket downward, paſting paper round about it, which ſhall bee coated with roſin and tallow, and over each hole where the rockets are placed, let it be ſoaped over the tallow, to the end that being fired, the ſparks may not eaſily take fire of the paper, which otherwiſe would make ſome confuſion ; having done this, fit in a peece of wood to the greater boare of your ball, leaving only a ſmaller vent, of halfe an inch, and by this meanes

meanes the fire will come out with more violence, and having ſpent it ſelfe, within one inch of the bottom, it ſhall fire the eight rockets placed about, which by their force ſhall break the paper of each, and aſcend into the ayre, a ſmall heighth, and after lie tumbling on the water. This ball is repreſented in the twelfth figure by the letter D.

A *the place of firing the ball.*
B B *the peece of wood put in to leſſen the vent.*
C *the greater hollow to be filled with the ſlow compoſition as the former.*
D D *the bottom, which is looſe, and to bee hollowed to receive part of the ſlow mixture.*
E E *the holes boared to put in the rockets, which muſt bee covered with paper.*
F F *the rockets placed in, with their mouthes downward.*
G G *the place of fitting the rockets.*

CHAP. LIV.

Another ſort of water ball, which ſhall caſt forth rockets at two ſundry times, and after it is finiſhed, ſhall give a great report.

This ball ſhall be made after the manner of the other, but ſhall bee a foot in diameter, and ſhall have two circles of rockets placed round about, ſo that the lower circle ſhall be one inch from the higher, and likewiſe ſhall go down into the ball an inch lower, and under that row of rockets there ſhall be placed a breaker of iron, which ſhall bee one inch from the lower tyer, ſo that the ball being fired, ſhall after a certain time, caſt forth a dozen of ſmall rockets, and then continue a while longer, and then in regard of the larger circumference of that circle, it ſhall caſt forth twenty, and after that is ended, their fire comming to the chamber of iron, ſhall cauſe a very great report, and ſo conclude. The form of this is layd down in the fifteenth figure by the letter H.

H *the vent for firing the ball.*
I I *the peece of wood fitted to the greater boare.*
K *the hollow of the greater boare filled with a ſlow compoſition.*
L L *the upper tyer of rockets.*
M M *the lower tyer of rockets.*
N *the breaker of iron.*
o o o o *the places to put in the rockets, which muſt bee covered with paper well ſoaped, upon tallow.*

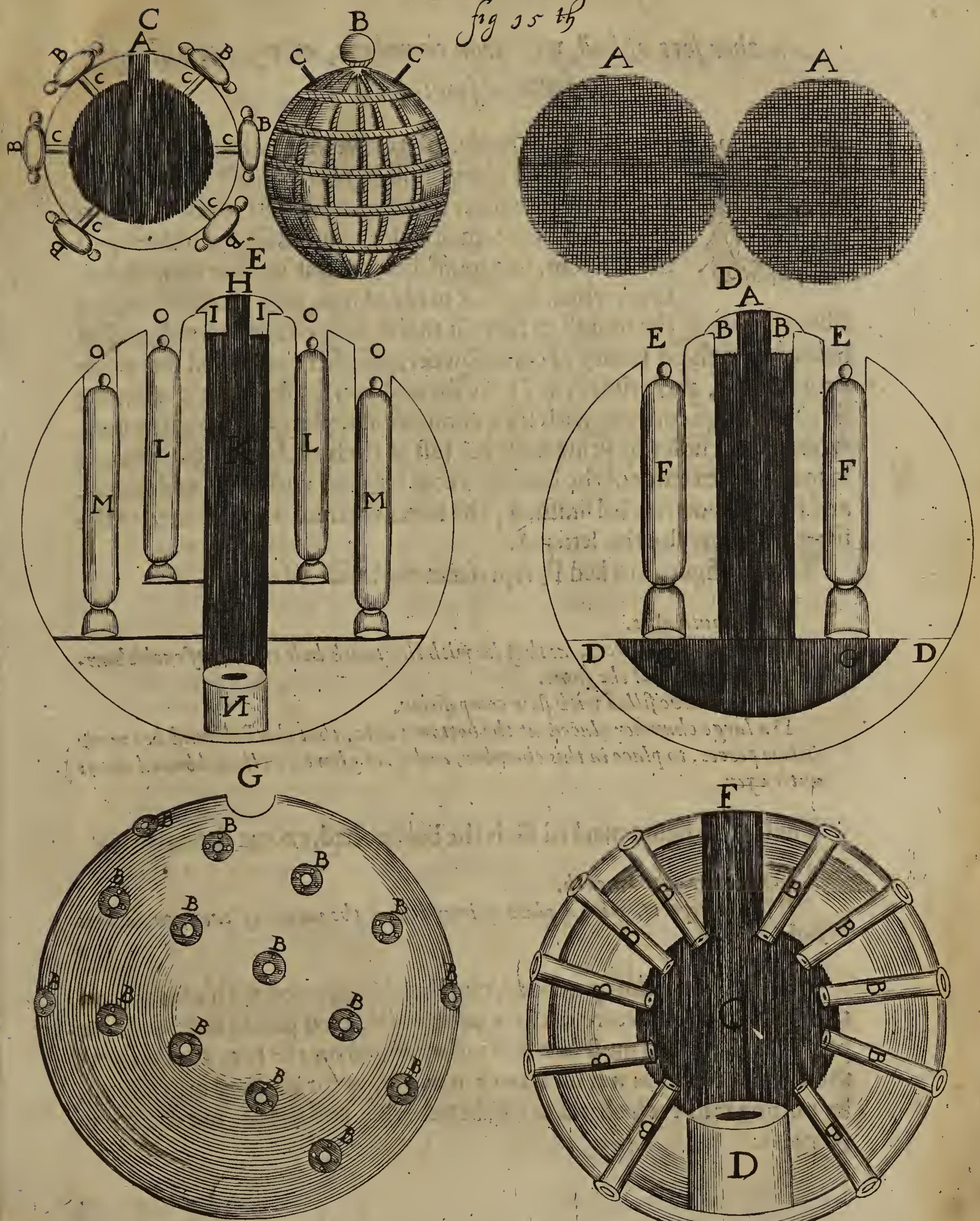

fig 15 th

CHAP. LV.

Another ſort of ball, with iron chambers, every one caſting forth a ſmall ball.

CAuſe a ball to be made, of twelve inches diameter, and in the midſt boare a large hole of two inches high, hollowing it within, and let it come within an inch of the bottom; then boare ſmall holes of an inch from the top to the bottom, in a ſpiral line, to put in your ſmal chambers, which ſhall be made of iron, each chamber having a broad plate at the mouth to faſten it to the ball; thoſe chambers ſhal be loaden with a quantity of corn powder, and after that a ſmal ball made up in canvas, and primed, as I have ſhewed you for ſtarres, then having filled the large concave with ſlow compoſition, place in your chambers, whoſe touch holes or vents muſt bee juſt at the breech, and ſhal come al in toward the center of the ball, then coat it round with roſin and tallow, and ſo have you this bal finiſhed; the form whereof is repreſented in the fifteenth figure, by the letter A.

The firſt figure marked F, repreſents the inſide of the bal.

F *the mouth of it.*

B B *the iron chambers, as they lie with the touch hole or vent of each chamber, at the breech of the ſame.*

C *the concave filled with ſlow compoſition.*

D *a large chamber placed at the bottom: note, that this ball muſt bee made in two peeces, to place in this chamber, and after glewed well, and bound about with wyer.*

The ſecond figure marked G, is the bal finiſhed, except the coating.

G *the vent at the mouth.*

B B *the reports, with a plate of iron round the mouth of each, to nayle it faſt.*

This bal being thus provided, muſt be after covered with canvas, and then dipped in a mixture of three parts roſin, two parts pitch, and one part tallow, which muſt bee firſt incorporated on the fire, and ſo uſed: this bal may ſerve as wel for ſervice in warre, as for pleaſure or triumph, by putting into each chamber a bullet of lead, and ſo ſhot out of a Morter peece.

CHAP. LVI.

There are divers other ſorts of bals, as well for water as for land, and are to be ſhot out of the Morter peece.

AND becauſe the Morter peece is often uſed in Fire-works, I will deſcribe the manner of it, with the uſe thereof, as much as is requiſite to this place; and firſt for the manner; the manner of the Morter peece conſiſteth only in his proportions, which are divers, according to the pleaſure of the workman; but thoſe of moſt uſe for fire bals, are one and a halfe, and two diameters, in the length of the chaſe, and one diameter in the length of the chamber, with halfe a diameter at the mouth of the chamber; the reaſon of this ſhortneſſe is, that one may come the more commodiouſly to the firing of the ball; the proportion of this peece followeth in the ſixteenth Figure.

B *is the form of a Morter peece lying on his carriage, the quoyn being made to draw with a ſcrew, as I have made uſe of.*

A A *the diameter or heighth of the boare, which is* $4\frac{1}{4}$ *inches, or* 100 *parts of this ſcale.*

A B *the length of the chaſe, and is two diameters, or* $8\frac{1}{2}$ *inches.*

B B *the heighth of the chamber, which is halfe a diameter of the ſhot, which is here two inches.*

B C *the length of the chamber, which is one diameter of the ſhot, that is foure inches.*

C C *the bottom of the chamber, which is one inch, or* $\frac{1}{4}$ *diameter.*

D D *the diameter of the trunions, which is halfe the diameter of the ſhot, and is two inches.*

D E *the length of the trunions, and is two inches.*

The proportion of powder for this peece is 2 ℥ for a ſtone ſhot, and 1 ℥ for a Fire ball.

CHAP. LVII.

How to make a ball for the Morter peece, which ſhall caſt forth a great ſhowre of ſtars at the breaking.

THis ball muſt bee made of canvas, and muſt bee ſo proportioned, that being armed (as I have formerly ſhewed) it may iuſt fit the chaſe of your peece, which being ready, you ſhall proceed to the filling of it, which muſt be after this manner; at the bottom of this ball put in an ounce of fine corn powder, and then put in ſome of your round ſtarres well primed, and ſo fill them up cloſe about with powder duſt, ſtill putting in more of thoſe ſtarres, and in the midſt put

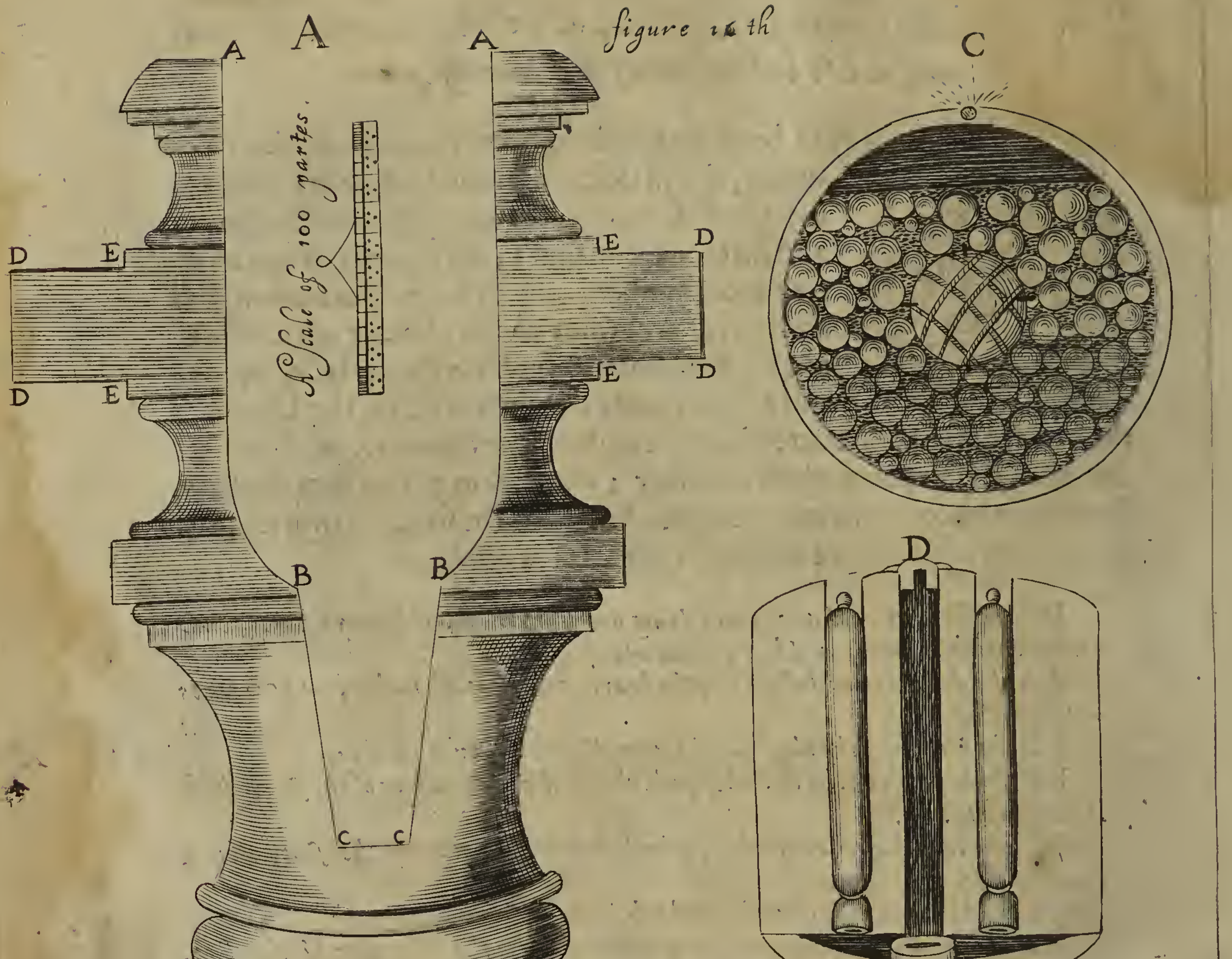
figure 16th

A
A
A
C
D
E
E
D
D
E
E
D
A Scale of 100 partes.
B
B
C
C
B
D
10
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85

one ſtarre which may be ſomewhat great, ſo filling it till you come within one inch of the top, then fill it up with a ſlow receipt, as I have formerly preſcribed for bals; and ſew it cloſe up, arming it with fine cord, or marline, and pierce a vent in that place where your ſlow mixture lyeth, alwaies provided you pierce it not too deepe, that your ball breake not before his appointed time: then when you would uſe it, loade your morter piece with one ounce of corne powder, putting after a wadd and tampion, and put on your ball with the vent towards the mouth of your piece: ſo elevating your piece toward the Zenith, you may proceed to the firing of it, which muſt be after this manner: provide two matches ready lighted, having one in each hand, and firſt fire your ball with one hand, and preſently give fire to your Piece with the other, alwaies holding your head under the horizontall line of your Piece, for feare the blaſt annoy you: this having done, you ſhall ſee your ball mount very high, with a faire taile of fire, and when it is at higheſt, ſhall breake forth into a goodly ſhowre of ſtarres: one of theſe bals will containe almoſt one hundred ſmall ſtarres. The forme of it is repreſented in the 16 Fiigure, by the letter G.

C *Repreſenting the ball cut in ſunder, that you may ſee the order of the ſtars lying.*

E *The great ſtarre in the midſt, with all the reſt placed about it. Note every one of theſe ſtars muſt be primed thorow with cotton wicke, as I have formerly ſhewed.*

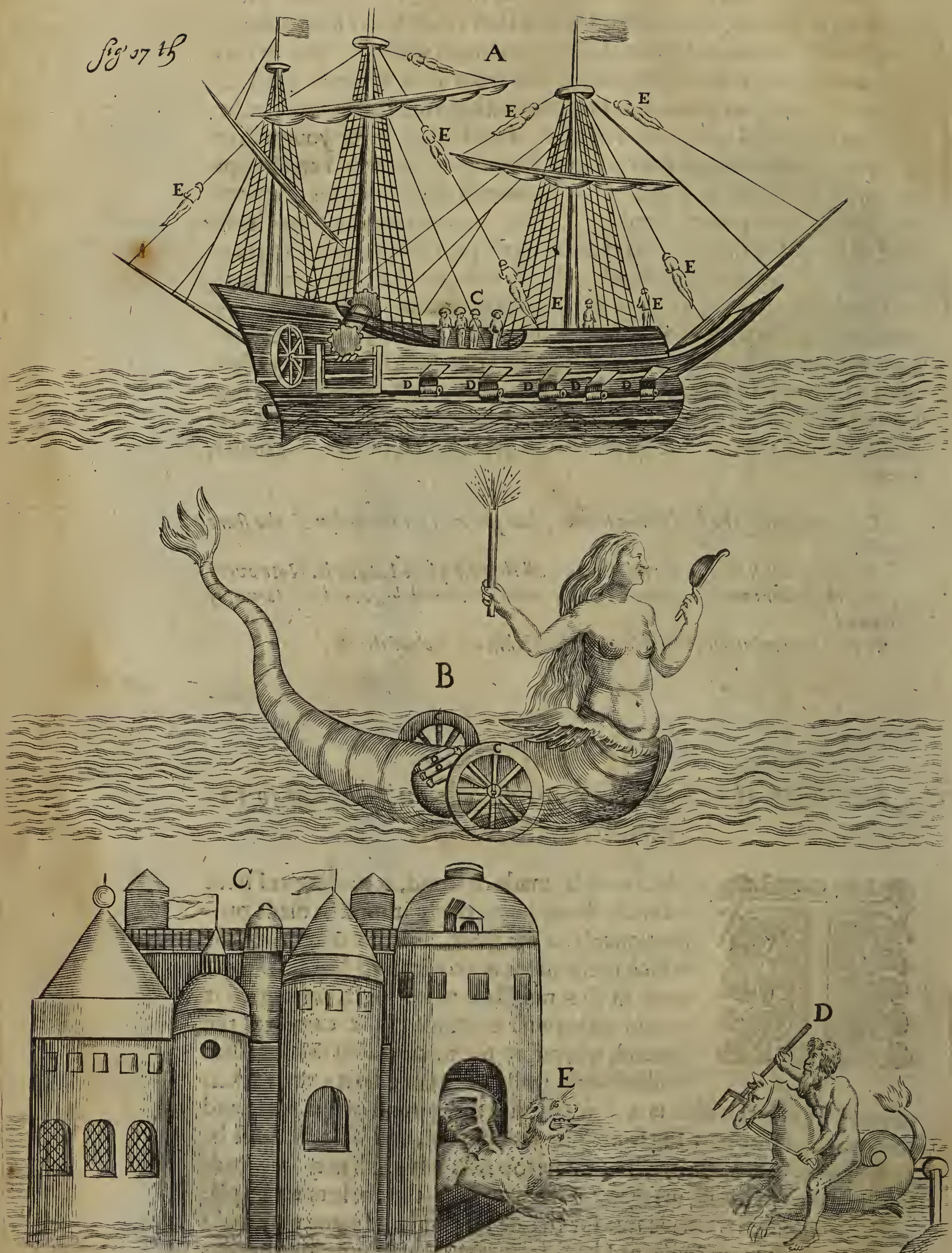
D *The ſlow mixture, which commeth within one inch of the top.*

CHAP. LVIII.

Another ſort of ball for the morter piece, which ſhall caſt forth divers Rockets in the ayre.

THis ball muſt be made of wood, according as I have formerly ſhewed you, onely it muſt be made proportionable to the piece, and moreover the vent which in the other is required to be a ſlow mixture, in this muſt bee more ſwift, in regard it would otherwiſe continue till it came to the ground, wherefore the mixture that this ball ſhall be filled with, ſhall be the ſame that your rockets of one pound are, which is 4 ℥ of coleduſt to a pound of powder, and one ounce of ſaltpeter. Theſe muſt be well mealed, and likewiſe muſt be cloſedriven, otherwiſe it will conſume too faſt. This ball may bee made ſomewhat cillindricall, in regard of the length of the rockets to be placed in it, as you have made this for to caſt forth once, ſo you may make another to caſt forth twiſe, as I have formerly ſhewed you for the water ball. The forme is repreſented in the 16 Figure, by the letter D.

fig 57 th



Chap. LIX.

How to compoſe a ſhip of fire workes, which being once fired, divers motions ſhall preſent themſelves.

CAuſe a mould to be made ſo, as you may take off the upper decke, to place ſome workes underneath, where you ſhall have a fire wheele placed with a ſcrew on the axeltree; this wheele ſhall bee placed in the ſterne, and ſhall turne a rowler, on which ſhall be two girts placed, which ſhall paſſe on each ſide of the maine maſt, and runne on to the fore-ſhip; in this wheele there ſhall be a hollow ſpoake and axeltree, as I have formerly ſhewed, which ſhall be ſo ordered, that the wheele being ſpent, it may convey fire to a tier of gunnes lying round about, which ſhall be fired with a cloſe conveyance, and having paſſed that, it ſhall take hold of another conveyance, which ſhall give fire to certaine rockets, being placed in the bodies of ſome figures repreſenting Mariners, and ſhall be ſo fitted, that they may have a cane joyned to the body to guide them, ſo that they may runne up from the top of the deck, to the top of each maſt: this and many the like may bee performed with great facility. The forme of this is repreſented in the 16 figure A.

A *Repreſents the ſhip ready finiſhed, with all things in motion.*

B *The fire wheele which moveth the rowler, and carryeth the girt whereon the figures are placed.*

C *The figures placed on the girt being in motion.*

DDDD *The tier of guns which fire as the wheele beginneth to ſtand ſtill.*

EE *The figures which ſtand ready to runne up the cords; alſo you may ſee ſome in their motion halfe way, and others being got up to the top of the maſts.*

CHAP. LX.

How to make the Siren or Mermaid, playing on the water.

THis is to be formed divers waies, according to the magnitude of the figure; if you will make one of an ordinary length, which is five or ſixe foot, proceed as followeth: Let the body bee made of light rods, ſuch as basket-makers uſe, and in the center of the body, let there be placed an axeltree, having too wheeles comming into the water; yet ſo as they may not be ſeene; theſe wheeles muſt be made hollow, to containe a quantity of ſand or water; the uſe of it is to keepe the Sirene upright, and alſo to ſinke it ſo farre into the water as is needfull, and likewiſe to make it goe more ſteady; note that theſe wheeles muſt bee looſe, and the axeltree faſt; in the midſt of this axeltree, place three or foure great rockets, one by another with their mouthes all one way,yet ſo provide,that there may be ſuch a diſtance betweene each rocket, that there may come a vent from the taile of the firſt, to the mouth of the ſecond, and from the ſecond to the third,and to the end that it may continue the longer in motion, you may place divers lights about the body, to make it more beautifull; every of each light extinguiſhing, ſhall give a report, and ſo conclude. The forme of this is repreſented in the 17. Figure by the letter B.

B *Repreſents a Siren on the water.*
C *The wheeles which are looſe on the axeltree, being hollow, and filled halfe with ſand or water.*
D D *The rockets placed in the axeltree which is faſt.*

There are many other workes to be performed on the water, by manuall art, or the helpe of the hand: ſome of which I will ſhew, the reſt I ſhall leave to the iudgement of judicious workemen in that art; in regard there are ſea fights, which are performed by gallies placed on the water, with the helpe of Mariners acted; and likewiſe Caſtles placed both on the water, and on the ſhoare; all which doe repreſent ſome former ſtory of the like: yet know this, there are many motions, to be wrought by hand, after a more ſecret manner, which will cauſe more admiration,and is done by certaine lines placed under the ſuperficies of the water, the ground of which I will ſhew you.

CHAP. LXI.

How to repreſent a Dragon iſſuing out of a Caſtle, which ſhall ſwimme thorow the water, and be incountred by a horſeman from the ſhoare.

Cauſe a Caſtle to be made on certaine timber, ſo as it may flote, if it be in a flowing and ebbing water,and let the bottome of the doore of this Caſtle, with the ground plat, be two foot under the horizon of the water (the reaſons follow) and at a foot high within the Caſtle, let there bee a certaine line tyed, which may paſſe thorow the body of the Dragon, and may bee faſtened neere the ſhoare, where you ſhall have a floate likewiſe ſunke ſo farre under water, that the line may not be perceived, then faſten on your Dragon, as I have formerly ſhewed you for the line, but ſo that the head of this may alwaies be above the line, where that was under: then when the time appointed comes, there ſhall be one ready within the Caſtle to fire thoſe parts of the Dragon which is requiſite, which being done by the helpe of thoſe pullies, ſhall paſſe it thorow the water, which ſo ſoone as it preſents it ſelfe, *Neptune* (as being diſpleaſed to ſee ſo monſtrous a creature within his bounds) ſhall come and encounter the ſaid Dragon,

and

and at laſt ſhall overthrow him: you may order your work ſo, that which you pleaſe ſhall have the victory, for that which keepeth fire longeſt, is ſuppoſed to have the beſt, and that which is ſooneſt ſpent, to have the worſt. Many rare things may be done in this for the pleaſure of Princes, which are to be acted on the water, which for brevity ſake I omit: onely I ſhall ſhew you the order of compoſing two ſorts of workes, the one to be acted on the land, the other on the water. The forme of this worke is repreſented in the 17 Figure, by the letters C D.

G *Repreſenting the Caſtle floating on the water, out of which the Dragon iſſueth.*
E *The Dragon comming forth of the Caſtle.*
D Neptune *comming towards the ſaid Dragon to encounter him.*
F *The pully which cauſeth theſe motions by meanes of drawing them to and from each other: the manner of faſtening the line for drawing them, I have ſhewed you before in the 33 Chapter.*

CHAP. LXII.

An order for a generall piece of fire-worke for land, and is for the pleaſure of a Prince or ſome great perſon.

CAuſe a frame to be made of wood, which let be eight ſquare, or more properly eight ſided (which is the beſt figure for this purpoſe) and let it bee forty yards from one ſide to the other, there place two Caſtles the one oppoſite to the other, which Caſtles ſhall be eight foot ſquare, theſe Caſtles ſhall be fitted with motions, as I have formerly ſhewed you, ſome comming out againſt others, ſome moving on the walles; all which may bee performed by the helpe of large fire wheeles, which muſt be at the leaſt ſixe foot diameter, with large Rockets fot the ſame purpoſe, as I have formerly ſhewed you: then on the foure adjacent ſides, you ſhall place foure other wheeles, two running horizontall, and two verticall; and on the other two ſides you ſhall place rockets, ſome flying upright, and others circular; at each angle or corner, there ſhall be placed a torch of a beautifull fire and ſlow; ſo much for the ſides: now you ſhall come to fill up the vacuum betweene the ſides, alwaies noting that from one Caſtle to the other, paſſeth a frame of wood, the uſe whereof I have formerly ſhewed, then before the midſt of this frame, there is placed on the one ſide, two ſquare caſes of rockets, and betweene theſe caſes toward the bottome, and ſomewhat before, there is placed anticke motions, and to the angles of each Caſtle are placed two lines, with runners which take fire, and paſſe to and fro; note the end of thoſe lines muſt be perfect wyer, or elſe the fire would burne them, then on the ſame ſide behinde the motions, ſhall ſtand aloft a frame with the Kings name or the like; then on the other ſide of the frame, within the vacuum, ſhall be placed three ſtanding wheeles, whereof the one ſhall caſt forth rockets into the ayre, the other two are for reports and fiſgigs; theſe three wheeles ſhall ſtand in a triangular forme, and ſhall have a frame paſſe from the one to the other; and betweene the angles of theſe wheeles, ſhall be placed two mortar pieces, which ſhall bee to caſt fire bals, with divers workes in them. The manner of this is repreſented in the 18 Figure.

CHAP. LXIII.

Another order for a generall worke, and is to be acted on the water.

Having a place appointed for your worke, (which muſt be in ſome ſpacious River) you ſhall ſeeke the moſt convenient place on the ſhoare for placing a Caſtle, which ſhall bee made to repreſent ſome City or Fort lying on the water; this Caſtle ſhall be furniſhed with all manner of workes, as well fire bals, as rockets, with divers ſmall Ordnance to give a more grace to the worke; this being provided, you ſhall alſo make another Caſtle on the water, on certain boats chained and lying at anchor, theſe ſhall bee ſet at a reaſonable diſtance from the other, about twenty ſcore, or as your place will permit: in this Caſtle likewiſe you ſhall provide workes, as in the other, onely this Caſtle may not be ſo big as that on ſhoare, then you ſhall provide divers ſmall ſhips, which ſhall be ready to make a ſea fight: theſe ſhall be ſo divided, that the greater part may belong to the ſmaller Caſtle on the water, and likewiſe for ſurpriſing that on the land; likewiſe you may have motions paſſing from one Caſtle to another, as I have formerly ſhewed you for the water; amongſt the reſt you ſhall have ſome ſmall fire ſhip, ſuch as I have ſhewed you, which ſhall have divers motions: now there are many actions to be performed by theſe workes, as caſting bals from one Caſtle to the other, with the morter pieces, likewiſe ſending backe rockets to each other, with divers onſets on each ſide for ſurpriſals, all which I leave to the diſcretion and appointment of the iudicious workeman; and becauſe I will not trouble you with prolixity, I will conclude this my Pyrotechnia; onely I will at laſt impart that which is not the leaſt, which is the making of certaine Engines for trying of powder, of which I ſhall ſhew you foure, with the uſe of them in the enſuing Chapters, and ſo conclude.

CHAP: LXIV.

Of the uſe of certain Engins for the trying of the goodneſſe or ſtrength of powder.

Before I come to explaine the manner of making thoſe Engins, I will ſhew you the commodiouſneſſe of them, eſpecially in theſe works; for hee that will make a good rocket, muſt be certain of the ſtrength of his powder, which if it bee too ſtrong, will break; if too weak, it will not riſe to that heighth it ſhould; which, I muſt confeſſe, hath been a great loſſe of labour to me, as well as to other men, yet if men will be ſo carefull and take that paines for the trying their powder, they may make rockets infallible; therefore I adviſe every man that will work ſure, firſt to take his powder, be it what it will, and allay it according to the rules preſcribed, then take a quantity of that mixture,and put it into your Engin being exactly weighed to a graine,then drive your rocket, and be ſure to follow the former rules preſcribed in driving your rockets; which being finiſhed, with his works upon his head, you may fire it, which if you ſhall finde to bee too violent, you may allay by putting thereto a proportion of coale, and ſo try it again, till ſuch time you finde it to be the beſt, then note that proportion for all rockets of that ſize, and ſo do for all others; and if you finde your mixture yet too weak, adde thereto a ſmall quantity of roch peter till you make it of ſufficient ſtrength; and thus doing, you ſhall have a certain and infallible rule for your proportions : I could ſet down the proportions according to my Engins, but that would prove an abſurdity, in regard every Engin may have a greater or leſſer ſtrength added to his ſprings, or the like, as you ſhall perceive in the next Chapter.

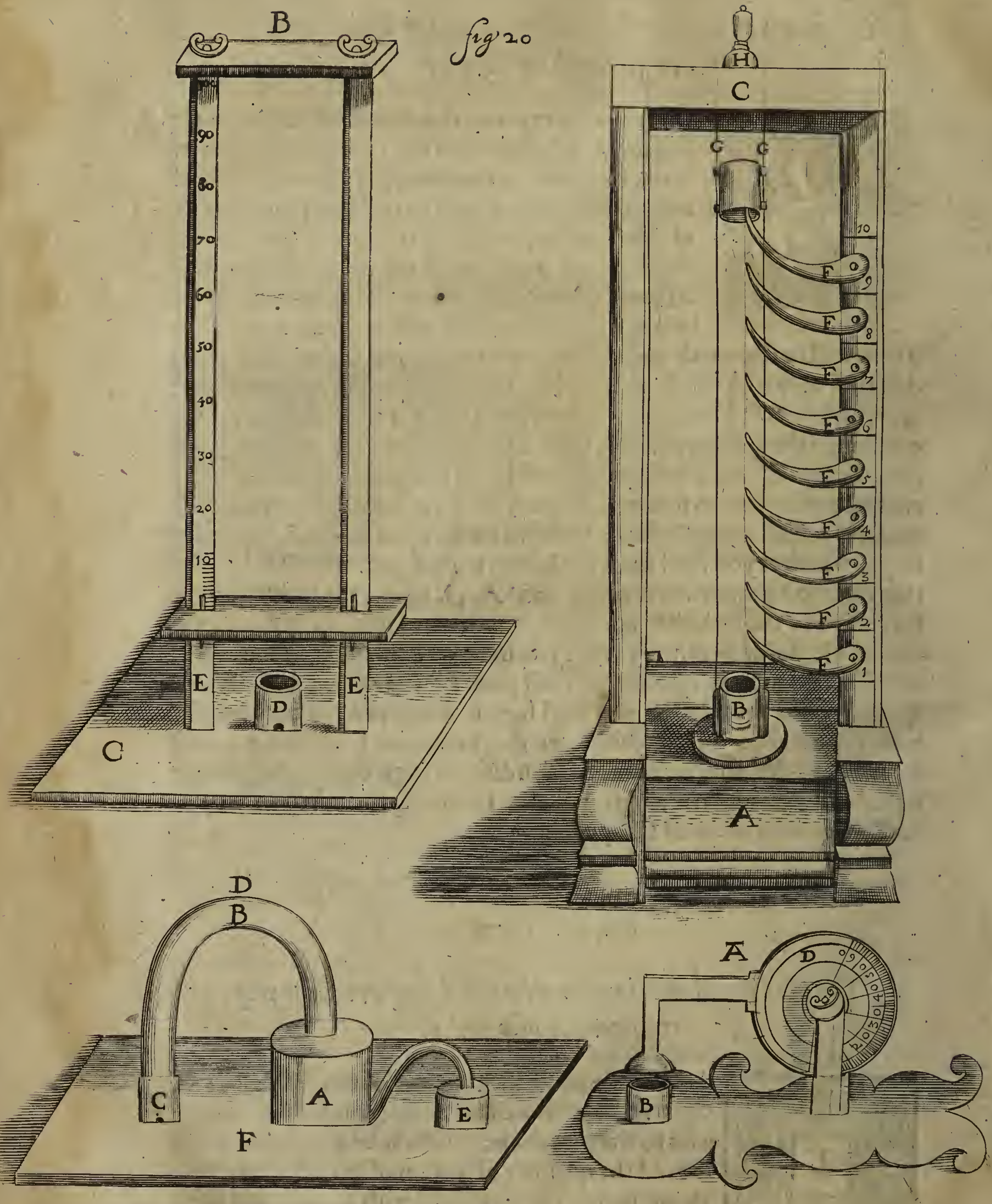
CHAP. LXV.

The manner of making the aforeſaid Engines for trying the ſtrength of powder.

THE firſt is made in a circular form, with a neck comming from the circumference, which ſerves for a lid to the powder box, which box ſhall bee made to hold the quantity of a dram of powder, or there about, ſo that being covered with the lid, and fired, will blow, according to the ſtrength of the powder, and moving, will turn about a circle of braſſe, which is divided into certain equall parts, and ſo will ſhew the ſtrength according to the part it cutteth; for the greater the degree is that it is blown

up

fig 20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up to, the ſtronger is the powder, and contrary. The form of this is repreſented in the twentieth Figure, by the letter A.

A *repreſenting the form of the whole Engin.*
B *the powder box, which muſt be filled to the top.*
C *the lid, which muſt be put on the ſayd box, it being filled.*
D *the circle of braſſe to which the lid is faſtned, which is divided into degrees, and runneth upon the pin E, paſſing thorow the center, with a ſcrew to ſet it harder or eaſier.*

CHAP. LXVI.

Another Engin for trying of powder.

THE lid of this ſecond ſort is made to riſe in a ſtraight line, and hath for his guide two ſquare pillars of braſſe, divided into degrees, with ſprings to keep it ſteaddy in this motion; this muſt be made on a ſquare peece of braſſe, with the ſmall box in the midſt, and two ſquare pillars on each ſide, with a peece of braſſe to ſlide up and down by thoſe pillars, and muſt ſerve for a cover for your powder box; this peece of braſſe muſt have ſmall ſprings, which muſt go to each ſide of the ſquare to guide it ſteaddy in the motion. The form whereof you ſhall finde in the twentieth Figure, by the letter B.

B *the whole frame, with his parts adjoyned.*
C *the ſquare plate of braſſe, on which all is faſtned.*
D *the powder box, ſtanding in the midſt of that plate.*
E E *the two ſquare pillars of braſſe, ſtanding on this foot, and may bee made to ſcrew off and on at pleaſure.*
F *the lid to the fire box, which is made to ſlide up the two ſquare pillars.*
G G *the ſprings, which are faſtned to the lid, to make it move more ſteaddy.*
The diviſions 10, 20, *&c. ſhew of what ſtrength the powder is, for the higher that the lid riſeth, the ſtronger is the powder.*

CHAP. LXVII.

A third Engin for trying the ſtrength of powder.

THE third ſort are made ſomewhat after the manner of the former, which is to riſe up ſtraight, only it hath a cover hollow as big as the box, and on each ſide of the cover is a ſmall hole for a wyer to paſſe thorow, and on one of the ſides are little peeces of ſteele or braſſe, ſo fitted, that they will riſe with a touch, and give way to the riſing of the lid, and ſo ſoon as it is paſt, will hold it there, and will not ſuffer it to paſſe down any further ; this I hold to bee the beſt of the three, in regard that the ſprings in the former are ſubiect to grow foule with uſe, and ſo will be very ſtiffe, every time more and more ; but this will not. The forme of this is repreſented in the twentieth Figure, by the letter C.

A *the foot whereon the Engin ſtandeth.*
B *the powder box, which hath two ſmall wyers paſſing from each ſide to the top, to guide the lid.*
D *the lid, which hath alſo two holes on each ſide for the wyers to paſſe thorow.*
E *the ſide which is divided, on which is placed at every degree, one of thoſe peeces to ſlide up and catch the lid.*
F F *the forme of theſe catches, being either of ſteele or braſſe.*
G G *the two wyers which guide the lid of the box, and muſt bee put into a little peece of braſſe at the top, which may bee ſcrewed higher or lower at pleaſure, for the ſtraightning of the ſame.*
H *the ſcrew which ſtraightneth thoſe wyers.*

CHAP. LXVIII.

Another Engin for trying the ſtrength of powder by water.

THE fourth, and moſt certaineſt way of all, is by water, and is thus ; cauſe a ſmall veſſell to be made of braſſe, and very tight, ſo as it may containe a pinte of water ; let this veſſell bee made in a cillindricall form, and from the top of this veſſell let there bee made a pipe of braſſe, which ſhall turne like the ſiphon, and ſhall have a ſcrew at the lower end, to ſcrew into a box of braſſe ; all which ſhall ſtand on a woodden frame : now when you wil uſe this, you ſhal fil this great veſſel halfe ful of water, at a pipe which ſhal come from the bottom, and come up to the top winding, then ſhal there be likewiſe another veſſel underneath for a receiver, ſo that putting a quantity of powder into the ſmal box, and ſcrewing it on, it is ready ; then fire the powder, and you ſhal ſee it ſend forth a quantity of water, which you ſhall weigh, and ſo keep the weight of it, by this you ſhal know what quantity of powder of ſuch a goodneſſe wil ſend forth ſuch a quantity of water ; this I hold to be the certaineſt way, although the moſt troubleſome. The form of it is repreſented in the twentieth Figure, by the letter D.

A *repreſenting the veſſell of water, which ſhall be alwayes filled one halfe.*
B *the pipe of braſſe which paſſeth from the powder box to the veſſell of water.*
C *the powder box, being ſcrewed to one end of the ſaid pipe.*
E *the receiver, to receive ſuch water as is forced out.*
G *the pipe which conveyeth that water into the receiver.*
F *the bottom being of wood, with a plate of braſſe let into it.*

FINIS.

George Leslie

A ſhort

TREATISE OF GEOMETRIE:

In which are contained ſundry *Definitions* and *Problemes*, for the menſuration of *Superficies* and *Solids*,
as alſo the uſe of the Quadrat *and* Quadrant *in meaſuring of* Altitudes, Latitudes *and* Profundities, *with ſundry Mechanicall wayes for*
performing the ſame.

Vnto which are adjoyned certaine TABLES, wherein the
Square Root is extracted to 25000, and the
Cubick Root to 10000 Latus, *only*
by Ocular inſpection.

VVritten by *John Babington* Gunner, and Student
in the MATHEMATICKS.

LONDON,
Printed by THOMAS HARPER, for RALPH MAB,
MDCXXXV.

TO
THE RIGHT WORSHIPFULL,
Sir *John Heyden* Knight, Lievetenant of his
Majeſties Ordnance.

Sir,

HAving a long while obſerved your generous and noble diſpoſition towards good Arts and Sciences, which hath beene abundantly manifeſted to the world, both by your own exact & exquiſite knowledge in divers of them, and by your countenancing and encouraging ſuch as are profeſſors of the ſame; I am emboldened to preſent you with a parcell of theſe firſt fruits of my labours, being certaine Geometricall Problemes and Tables, which I have exactly calculated of ſquare and cube numbers. Some things I may boldly ſay, you ſhal finde here, which have not formerly beene ſo handled by any other, yet profeſſing my ſelfe to bee a Scholler rather than a Maſter, I truſt you will be pleaſed not onely to pardon whatſoever defects you ſhall finde in theſe my weake endeavours, but alſo to accept this ſmall Treatiſe into your Noble Patronage, and my ſelfe the Author of it into the Role and Catalogue of thoſe that are

Your Worſhips in all true obſervance,

JOHN BABINGTON.

TO
THE READER.

Gentle Reader,

T*His ſhort Treatiſe of Geometry is not intended for ſuch as are Maſters of that Art, but onely for young practitioners, and more eſpecially for my fellow Gunners, to whom it moſt properly belongeth; yet perhaps thou mayeſt finde herein ſome things worthy of thy acceptance.* Sure I *am, that theſe Tables will afford thee great helpe in the working of divers* Geometricall *concluſions, wherein* I *tread in no mans ſteps, none, for ought* I *know, having traced that way before me, or if he have,* I *ſuppoſe hee hath not publiſhed his labours to the world.* I*f thou like of theſe,* I *ſhall be the willinger to goe on in my intended courſe; that is, to calculate the Logarithmes of each root ſquare and cube; whereby moſt Algebraicall queſtions may be reſolved with great facility.* I*f thou diſtaſte them, and they pleaſe not thy palate,* I *ſhall be the more ſorry, in regard of that great labour and coſt which hath beene beſtowed upon them; yet* I *muſt not looke to fare better than my betters before me have done. However* I *ſtand to thy cenſure, and reſt*

Thy friend,

IOHN BABINGTON,

Student in the Mathematikes.

A TREATISE OF GEOMETRY,

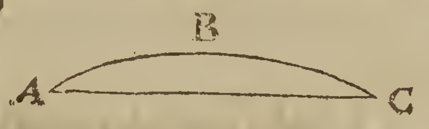
Containing ſundry Definitions and Problemes, both pleaſurable and uſefull.

Geometry is the art of meaſuring well.

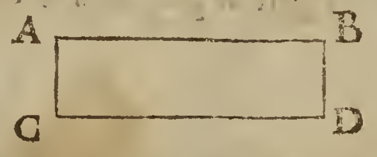
A point is that which cannot be divided, and is the leaſt imaginary thing, as this .

A right line, is that which hath onely length without bredth, whoſe termination is two points, ——— and is the ſhorteſt betweene the points.

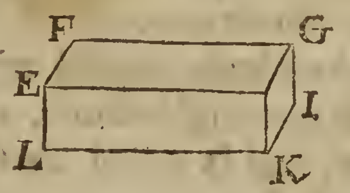
A crooked line is that which being deſcribed, a ſhorter line may beedrawne betweene the two points, as this,



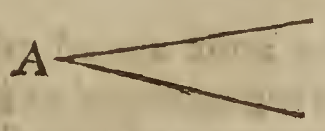
A ſuperfice is that which hath length and bredth onely, thus,



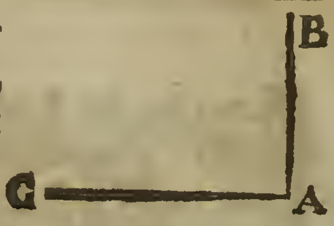
A ſollide, is that which hath length, bredth, and thickneſſe, as this figure.



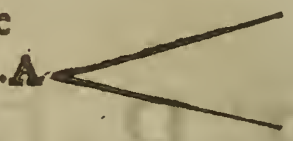
An angle is the inclination of two lines, concurring in one point, thus: of which ſome are right angled, and ſome oblique:



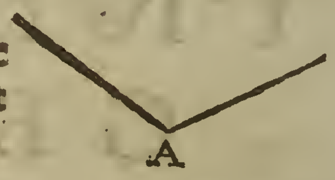
A right angle, is when one line falleth perpendicular upon another, thus: the perpendicular being A B, let fall upon the line A G, it being right angled at A.



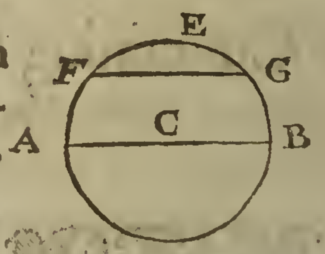
An oblique angle, is either acute, or obtuſe; acute when the angle is leſſe than a right angle, as A. thus, it being acute at A.



An obtuſe or blunt angle, is that which is more than a right angle, thus, it being obtuſe at the point A.



A circle is a figure determined with one line, which is called circumference, as A E B. whoſe diameter is the largeſt right line within the circumference.



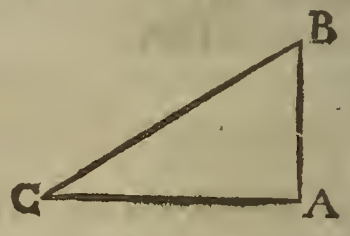
A ſemicircle, is halfe a circle, parted by the diameter, as A E B.

A cord, is a ſhorter line than the ſemediameter: as the line F G.

An arch, is that portion of the circumference, which comprehendeth the cord line, as E F G.

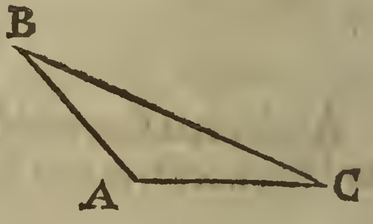
A triangle is a figure containing three ſides, and of theſe figures there are divers ſorts, ſome right lined, and ſome oblique: of right lined triangles there are alſo divers ſorts, ſome right angled, and ſome oblique.

A right angled triangle is that which hath one right angle, and is called *Orthogonium.*

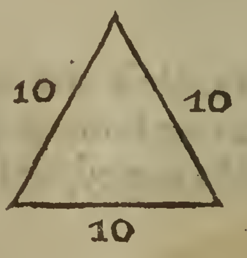


An oblique angled triangle, is ſaid to bee either obtuſe or acute.

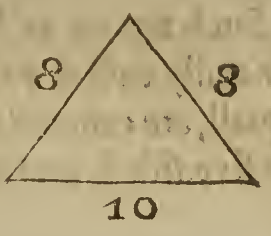
An obtuſe angled triangle, is that which hath one angle obtuſe, and the other two acute, and is called *Ambligonium,* obtuſe at the angle A.



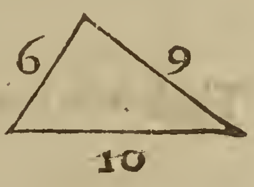
An acute angled triangle, is that whoſe three angles are ſaid to bee acute, and is called *Oxigonium,* and if the three ſides be equall (as in this figure is manifeſt) it is then called an equilater.



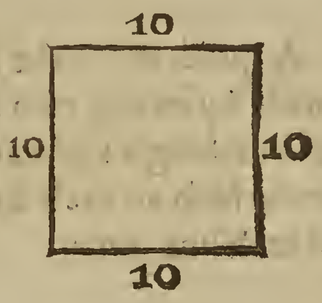
But if onely two ſides bee equall, and the third unequall, then it is called *Iſoſcheles*, as you may here ſee, where the two ſides are equall, and baſe unequal.



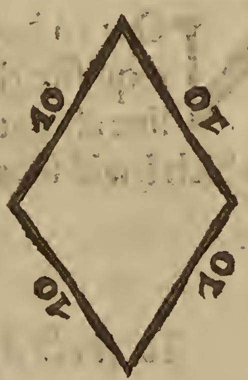
And if all three ſides be unequall, then it is called *Schalenum*, as in this figure appeareth.



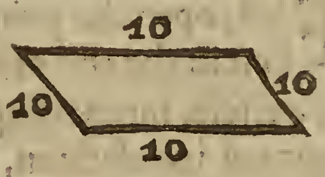
There be alſo foure ſided figures, which are called quadrangles, and of thoſe there are divers ſorts, ſome of which are geometricall ſquares, whoſe foure ſides are all equall, with equall angles thus,



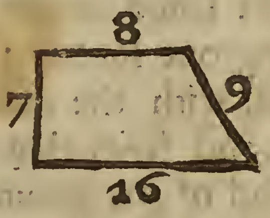
Others, whoſe foure ſides are equall, and oppoſite angles equall, which are called *Rombus*, or diamond like formes.



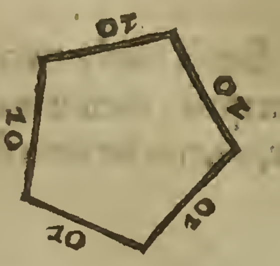
There are others which have their oppoſite ſides, and oppoſite angles equall, and are called *Romboides*, thus,



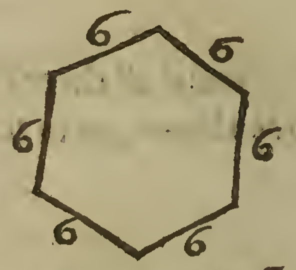
There is a fourth ſort which is called *Trapeziū*, or table formes; and thoſe are ſuch as have neither equall ſides, nor equall angles, and of thoſe there are divers formes, of which here is one forme.



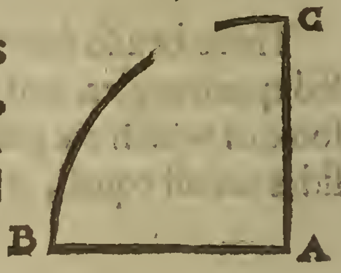
Such figures as have more than foure ſides, are generally called *Polligons*, which if their ſides bee equall, are called Regular *Pelligons*; of which ſome are five ſided, and are called *Pentagons*.



Thoſe who have ſixe ſides, are called *Hexagons*.



A quadrant is the fourth part of a circle, and is made by letting two lines concurre of equall length, and making a right angle; and from that angle, deſcribe ſuch an arch as may touch at the other end of each line, thus;

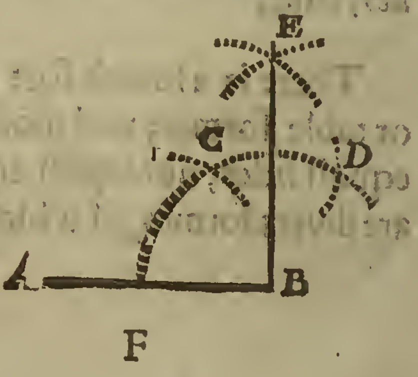


NOw to know how to make theſe figures, and divers others, it is requiſite that we know what it is to let fall a perpendicular on a line aſſigned; of which there are divers wayes and formes, ſome of which I will ſhew you.

Problem 1.

To erect a perpendicular on the end of a ground line.

FIrſt, open the points of the Compaſſes to any diſtance, ſetting one foot in the end of the ground line, and with the other deſcribe an arch of a circle, interſerting the ground line; that done, ſet one foot in the point of interſection, and from that point ſet off the ſemidiameter of that arch twiſe, and ſetting one foot of the Compaſſes in each point, with the other make an interſecting arch, and from that point of interſection to the end of the ground line, draw another line which ſhall be a true perpendicular to that baſe.



Example.

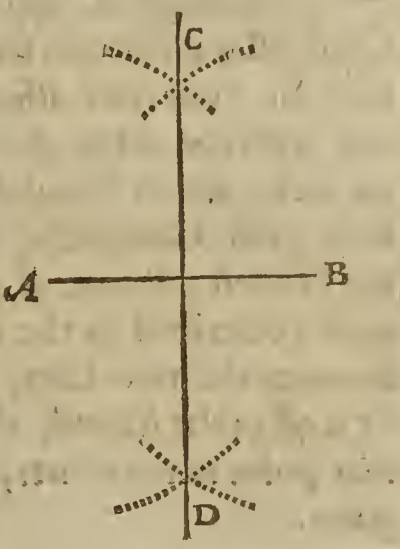
Let the line given be A B. on which it is required to erect a perpendicular, which ſhall be from the point B. Firſt, I open the Compaſſes to any diſtance, deſcribing the arch C D. interſecting the line A B. in F. then ſetting one foot in F. I ſet off B F. from F to C. and from C to D. that done, I ſet one foot of my Compaſſes in C and D, and with the other,

other, deſcribe the interſecting arches at E, and from the point of interſection, I draw the line E B, which is the perpendicular required. There are divers other waies, which for brevity I omit.

Prob. 2.

To divide a line given, into equall parts, at a right angle.

OPen your Compaſſe to a greater diſtance than halfe the line, and ſetting one foot thereof in one end of the line given, with the other deſcribe a part of an arch both above and beneath, then the compaſſes unaltered, remove one foot of the compaſſes to the other end of the line, and with the other foot croſſe the other; and from the place of interſection, draw a right line, which ſhall cut or divide the line given into two equall parts.



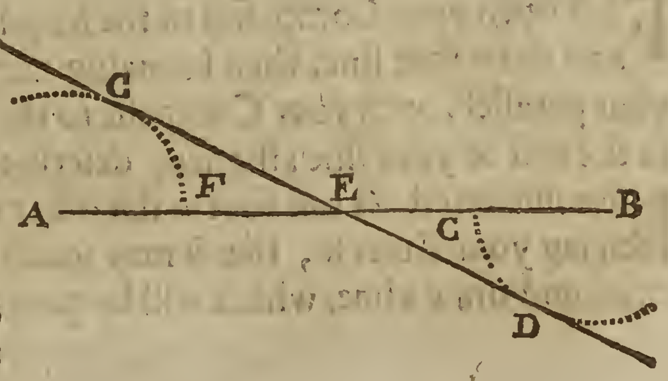
Example.

Let A B, be the line given to be divided; I ſet one foot of the Compaſſe in the point A, opening the other ſomewhat beyond one halfe, with which I deſcribe two arkes, as C D, then removing my Compaſſes to B, with the foot of the Compaſſes unaltered, I obſerue where the interſection is made in thoſe two former arches; and from one interſection to the other, I lay my rule, and draw the line D C, which cutteth the other into two equall parts at a right angle, which was required.

Prob. 3.

Another way to divide a line into two equall parts, although the Compaſſe ſtand at leſſe than halfe diſtance.

SEt one foot of your Compaſſes at one end, and with the other, deſcribe an arch above the line, then your Compaſſes unaltered, ſet one foot at the other end, and deſcribe an arch under the line; then lay a ruler till it touch the extreame part of each arch, and draw a line from the one to the other; for where that interſecteth in the line given, that is juſt the middle, & ſo conſequently it is equally divided.



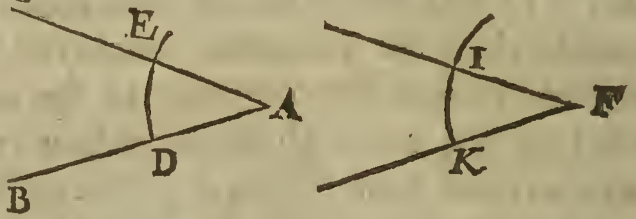
Example.

Let A B, be the line to be divided: open your compaſſe to any diſtance, as A F, then ſetting one foot in the point A, deſcribe an arch, as C F, removing your compaſſes to B, deſcribe the arch C D, under the line, then laying your Ruler to touch the two arches in D and C, draw a line, which will cut in E, which is the middle of your line A B.

Prob. 4.

To make one angle equall to another aſſigned.

OPen your Compaſſe to any diſtance, ſetting one foot in the angular point aſſigned, and with the other deſcribe an arch, then with your Compaſſes unaltered, ſet one foot on your line aſſigned, and with the other deſcribe an arch, which being done, with your Compaſſes, take the fartheſt diſtance of your arch (deſcribed in the firſt) between the two lines, and ſet it off in the ſecond, then laying down your Ruler, draw a line from that point to the center, ſo have you another angle equall to the angle given.



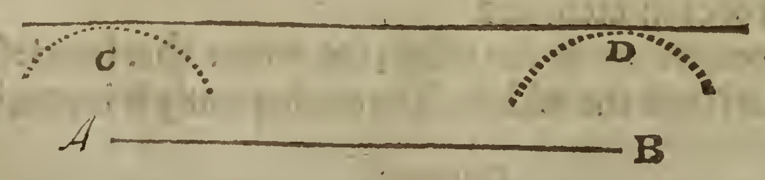
Example.

Let A B C be the angle given, I open my Compaſſes to a diſtance, and deſcribe the arch E D, ſetting one foot in A ; then do I draw another line, which is F K, and ſetting one foot of my Compaſſes in the point F, with the other I deſcribe the arch I K equall to the arch E D; which done, I take off the diſtance E D, and ſet it over from K to I, then laying the Ruler from the point I, to F, I draw a line I F, which make an angle of the ſame quantity as the former.

Prob. 5.

How to draw parallell lines.

FIrſt open your Compaſſes to the length of your line, which ſet down, and draw that line, then knowing the diſtance that you would make your parallell, open your Compaſſe to that diſtance, and ſetting one foot in the end of your line aſſigned, deſcribe an arch, and with the Compaſſes unaltered, ſet one foot in the other end, and deſcribe another arch, then lay your Ruler ſo, that it may touch each arch without cutting either, and draw a line, which will be parallell to the former.



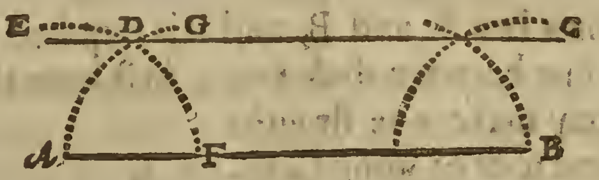
Example.

Let A B be the line aſſigned,to which I would make a parallell,whoſe diſtance ſhall be A C, ſetting one foot of the Compaſſes in the point A, and opening them to the diſtance C, I deſcribe that arch, then ſetting one foot in B, the Compaſſes unaltered, I make the arch D, and from C to D do I lay my Ruler, touching only one part of each arch, and from thence do I draw the line C D,which is parallell to the former, the thing required.

Prob. 6.

To draw a parallell line, without ſtirring the Compaſſes, from the diſtance given.

First open your Compaſſes to the diſtance given, then ſetting one foot in the end of your line aſſigned, deſcribe an arch which may touch your line, and ſetting the foot of your Compaſſes on that place, deſcribe an arch which may cut the other; this done, do the like at the other end, and then lay your Ruler on the interſections, and draw a line, ſo have you a parallell at one opening the Compaſſes.



Example.

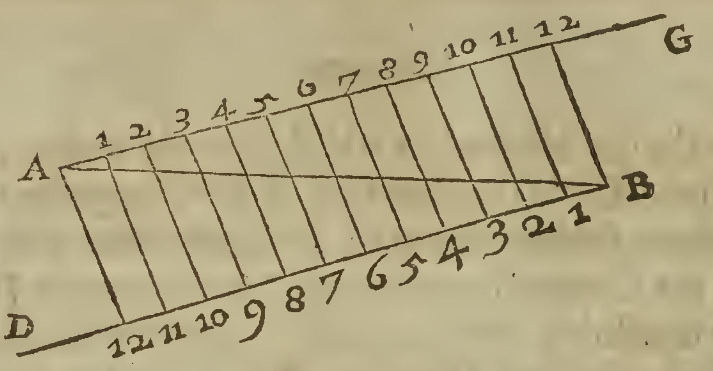
Let A B bee the line given, to which I would make another parallell, I open my compaſſes to the diſtance, and deſcribe the arch E D F; then the foot remayning in F, I deſcribe the other arch A D G; this done, I remove my compaſſes to B, and do the like; which done, I lay my Ruler that it may cut both the interſections, and then I draw a line from the point of interſection in the one end, till it touch the extreme part of the arch at the other end,and ſo have E D C paralell to A B.

Prob. 7.

To divide a line given, into equall parts.

At one end on the upper ſide, make an angle at all adventures, and on the under ſide at the other end, make another angle equall to the former by the fourth problem of this ſame; then open your Compaſſes to ſome ſmall diſtance, and ſet off your parts upon the two parallell lines, and ſo laying the Ruler from the laſt diviſion of one to the firſt of the other, and drawing a line, it ſhall divide it into ſuch proportionall parts as you pleaſe.

Example.



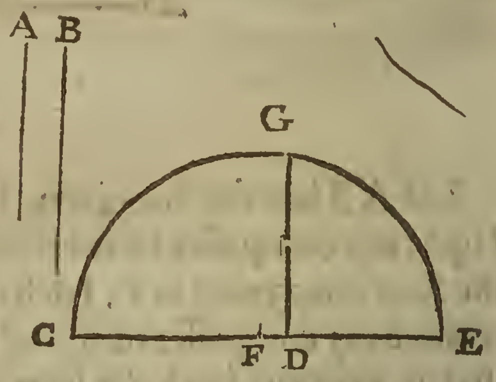
Example.

Let A B repreſent the line, which I would have divided into ten equall parts; I firſt lay downe the line A B and from one end, I draw a line, which let be A G, making an angle with the other line A B; and on the other end I draw another line parallel to the former, which let bee B D; then opening my Compaſſe to any diſtance, I ſet it down in the lines A G and B D, from the angular point, and ſo laying my Ruler from one angle to the other, I draw certain parallels which cutteth the line A B into ſo many equall parts, as I deſire.

Prob. 8.

To finde a meane proportion between any two lines preſcribed.

LEt the two lines bee A and B, and it is required to finde a meane proportionall line between theſe two; firſt ioyn thoſe two lines, ſo that they both may make one ſtraight line, and fixing one foot of your Compaſſe in the midſt of that line, extend the other foot to the extreme parts, and deſcribe an arch of a circle, then rayſe a perpendicular on the place of concurrence, and let it be extended to the arch; which line ſhall be a meane between the two lines given.



Example.

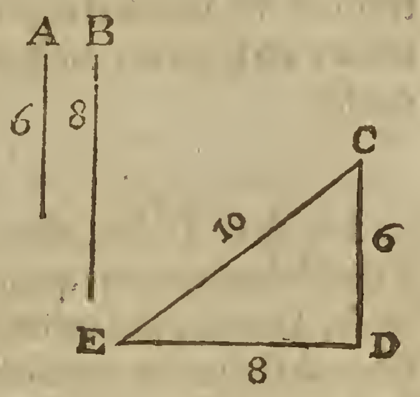
Let A B the two lines given bee ſo ioyned together, that they make both one line, which let be the line C D E, then dividing the line C F G into two equall parts, in the point F deſcribe the arch C G E; and rayſe a perpendicular on the point D, till it concurre with the arch in the point G, you have the line D G, which is a meane proportion between the lines A and B, which was required.

Prob. 9.

Prob. 9.

In any right angled triangle, the two conteyning ſides being given, to finde the ſubtendent.

IN a right angled triangle, I call them the contayning ſides which do contayne the right angle, and the line ſubtending the right angle, I call the ſubtendent, of which any two being given, you may finde the third.



Example.

Let the ſides (E D and C D) bee given, and the ſide E C is required ; to do this Geometrically, is no other then making a right angle of the two ſides, and from the extreme part of one to the extreme part of the other, to draw a right line, which ſhall be the ſubtendent, which ſhall be double in power to the two contayning ſides.

Otherwiſe Arithmetically.

Let the ſide E D be 8, and the ſide C D 6, and I deſire to know the ſide A C ; firſt I ſquare each ſide, ſaying, 8 times 8 is 64, and 6 times 6 is 36, which added, makes 100, out of which I extract the ſquare root, which is 10, and that is the ſide required : Contrary, if one ſide bee given with the ſubtendent, and the other ſide be required, I ſquare each, alwayes ſubtracting the ſquare of the ſide from the ſquare of the ſubtendent, and the remainer is the ſquare of the other ſide, whoſe ſquare root is the ſide required.

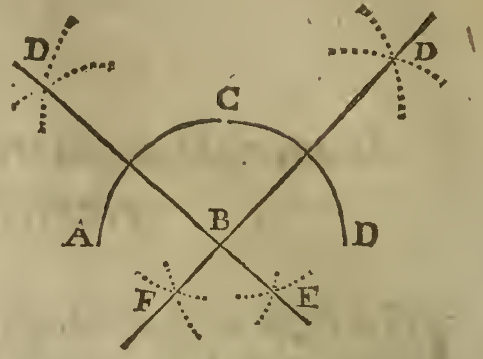
Example.

The ſubtendent E C is 10, the baſe E D is 8, and there is required the perpendicular D C ; firſt multiplying 10 in it ſelfe gives 100, and 8 multiplyed in it ſelfe is 64, which ſubſtracted from 100, reſts 36, whoſe ſquare root is the ſide required ; ſo that from hence is gathered, that the ſubtendent is double in power to the two contaying ſides, which is a maine propoſition, on which doth depend a great part of Geometry. *Euclide* 1. propoſition 47.

Prob. 10.

To finde the center of any arch of a circle preſcribed.

LEt there be an arch of a circle whoſe center is required ; firſt I divide the arch into two equall parts, and then ſetting one foot of the Gompaſſes



paſſes in the extreme parts, I open the other foot ſomewhat more than one fourth, and ſo deſcribe an arch above and beneath, and then removing my Compaſſes, I fix one foot in the midſt, and mark where it interſecteth in the other arches, then I draw two ſtraight lines thorow the interſecting arches, and where thoſe two lines cut each other, that is the center.

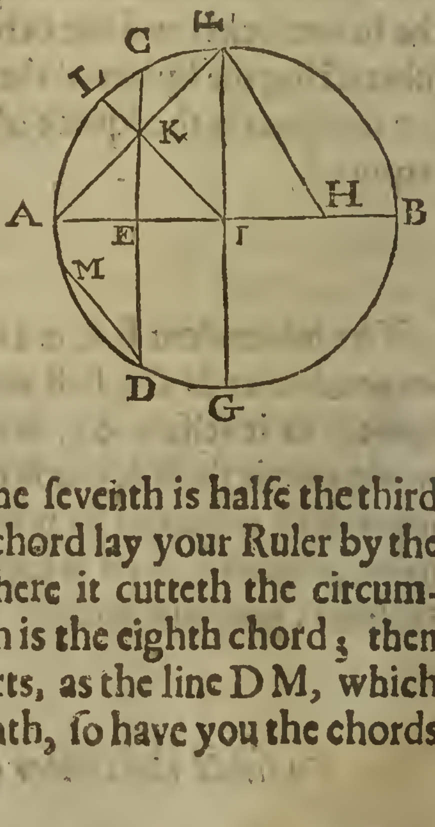
Example.

Let A C D bee the arch of which I deſire to finde the center, I divide it into two equall parts, in the point C, then ſetting one foot at A, I extend the other ſomewhat more than ½ between A and C, and there deſcribe the interſecting arches above and beneath, which are marked with D E and D F ; ſo likewiſe I do the like from the point D, then I draw two ſtraight lines D E and D F interſecting each other in the point B, which is the center of that arch required.

Prob: 11.

To finde out the chord lines in a circle, from the third to the tenth.

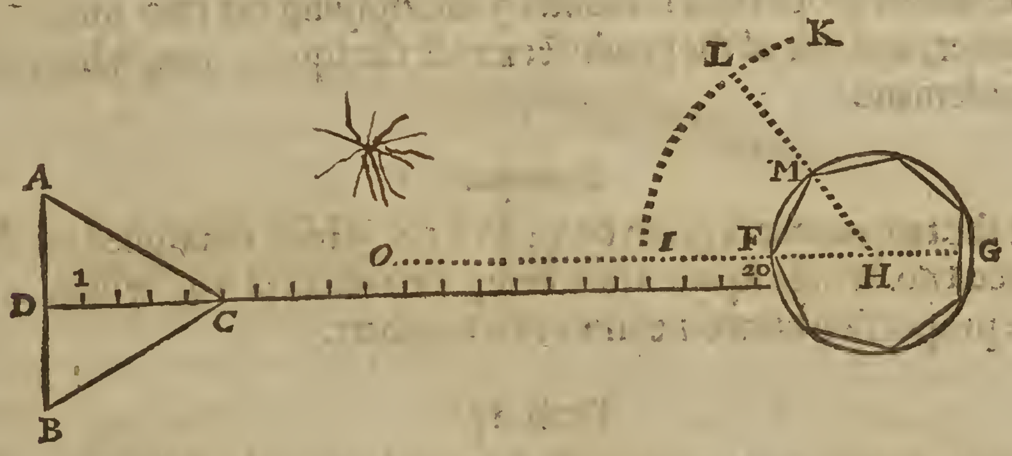
Let A B be the diameter of the circle, out of which the chords are to be found, firſt having drawn the diameter, and your Compaſſes ſtanding at the ſemidiameter, ſet one foot in A, extending the other thereof both above and beneath, till it interſect in the circumference, and note thoſe interſections which here are C, D, drawing the line C D, which ſhall bee the third chord, that done, croſſe the diameter at right angles in the center with the line F G, and from A to F draw a line, which ſhall be the fourth chord: now to finde the fift chord, ſet one foot of the Compaſſes in E, and extend the other to F, ſetting off the ſame diſtance from F to H, which ſhall bee the fift chord ; the ſixt is the ſemidiameter I F, the ſeventh is halfe the third chord, which is C E or D E ; for the eighth chord lay your Ruler by the center I, and the interſection K, and note where it cutteth the circumference in L ; then draw the line A L, which is the eighth chord ; then divide the arch line C D into three equall parts, as the line D M, which the ninth chord ; laſtly, the line I H is the tenth, ſo have you the chords from 3 to 10, which was required.



Prob. 12.

To finde out the chordes above the fourth another way.

First, make an equiangled triangle, then from one angle thereof draw a perpendicular, cutting the baſe, which line ſhall be increaſed beyond the angle, then divide the perpendicular of the triangle, into five equall parts, and continue thoſe diviſions on the line according to what number you pleaſe: then may you by this figure ſo provided, finde out any chord of a circle appointed in this order. Firſt lay downe the circle, whoſe chord is required, and draw thereunto a diameter, which increaſe at length, then ſet one foot of the Compaſſes in an angle of the triangle, and extend the other to one diviſion leſſe than the chord required, and ſetting one foot in the center with the other, make an arch, beginning it from the diameter; that done, put the ſides of the equilater, triangle from the interſection of the diameter, and the ſaid arch laſt preſcribed, as farre as it will reach in the arch, then lay your ruler by that interſection, and the center, and draw a line, noting where it cutteth the circumference of the given circle, and from that point to the end of the diameter, draw a line which ſhall be the chord required.



Example.

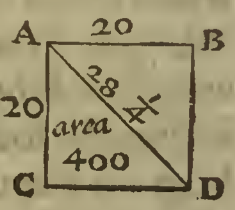
Let H be a circle giuen, wherein a Heptagon is to be inſcribed: firſt the ſeventh chord is to be found, therefore draw the diameter F G, which increaſe in length towards O, then ſet one foot in the angle A, of the prepared figure, extending the other to the ſixth diviſion; ſo the Compaſſes unaltered, ſet one foot in the center of your circle H, and with the other make the arch I K, that done, take the ſide of the triangle A C, and ſet it from I towards K, and note where it endeth in L, then draw the line L H, and note where it cutteth the circumference in M, and draw the line I M, which is the ſeventh chord, and will be found ſeven times in the circumference, and the lines being drawne, will include a Heptagon which was required.

To meaſure the Area or ſuperficiall content of any Geometricall figure.

Defini. To meaſure the Area or ſuperficies of any figure, is to ſhew how many ſeverall ſquares are therein contained, according to the ſcale aſſigned.

Prob. 13.

To meaſure the Area, ſuperficies, or content of a ſquare.



TO meaſure a Geometricall ſquare is nothing elſe, but multiplying the ſide in itſelfe, let A B C D, be a geometricall ſquare, whoſe ſide A B, is 20. which multiplied in it ſelfe, produceth 400. the content of that figure.

Prob. 14.

Arithmetically to finde the meane proportion betweene two numbers.

THe meane proportion is found by multiplying the two numbers together, and out of the product extract the ſquare root, which ſheweth the demand.

Example.

Let the two numbers given be 32 and 50. which multiplied together, produce 160. whoſe ſquare root being extracted, is 40. which is the meane proportion betweene thoſe two numbers.

Prob. 15.

The ſide of a ſquare being given to find the length of the Diagonall.

LEt A B C D, be a ſquare given, whoſe length of the Diagonall A D, is required: firſt, you ſhall ſquare A C, which is 20. ſa. 400. which double alwaies in this caſe, ſa. 800. the ſquare root whereof is the Diagonall A D, now foraſmuch as 800 is a ſurde number, and hath no perfect root, therefore finde the root in fourths, ſo ſhall you finde the root thereof to bee 113 fourths, and taking the $\frac{1}{4}$ of that number, is 28 $\frac{1}{4}$ for the length of the Diagonall. A D, as appeareth in the former Diagram.

Prob. 16.

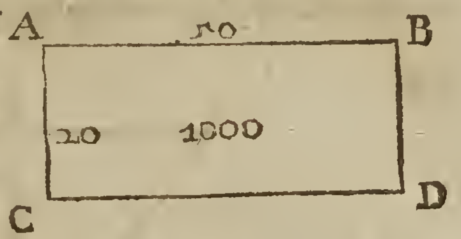
To meaſure a long ſquare.

TO meaſure the content of a long ſquare, is to multiply the length in the bredth, the product giveth the content required.

Example.

Example.

Let A B C D, be a piece of ground, containing 50 perches in length, and 20 perches in bredth, and I deſire to know the content, firſt I multiply 20 with 50 ſa. 1000 which is ſo many perches, that this figure containeth: now if you pleaſe, you may reduce the ſame into acres by dividing the whole ſumme (by 160) which is the content of one acre, ſo the content in acres will be found 6 and 40 perches which is $\frac{1}{4}$ of an acre.



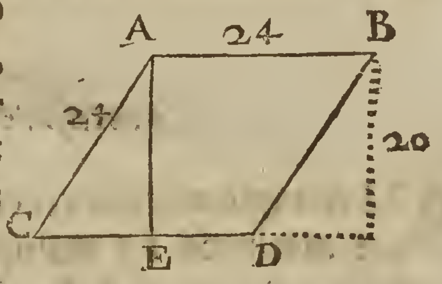
Prob. 17.

To meaſure a Regular Rhombus.

Every Rhombus is meaſured by multiplying the perpendicular in the baſe.

Example.

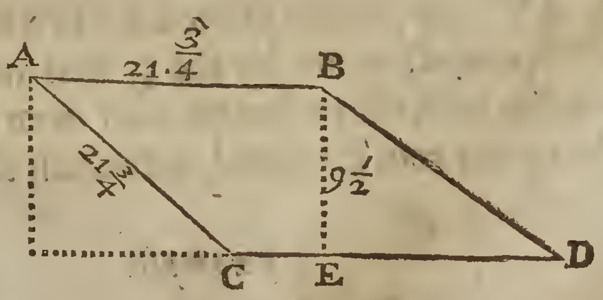
Let A B C D, be a Rhombus given to be meaſured, whoſe ſides ſhall be 24. and let the propoſition be to caſt up the content thereof: foraſmuch as the Rhombus conſiſteth of two equilater triangles, therefore a perpendicular let fall from one of the obtuſe angles as A, ſhall divide the ſide E D, whereon it falleth into two equall parts into E, then is C E 12. Then may you by the 47 propoſition of the firſt of *Euclid*, finde the length of the perpendicular A E, which is after this manner, ſquare C E, which is 12 ſa. 144 alſo ſquare A C, which is 24 ſa. 576 ſubtract the leſſer, which is C E, 144 from A G, 576 reſts 432 whoſe ſquare root being extracted, is √432 neere rationall 20 $\frac{3}{4}$. which multiplied by 24 produceth the area of the Rhombus 498 which was required.



Prob. 18.

To meaſure an irregular Rhombus.

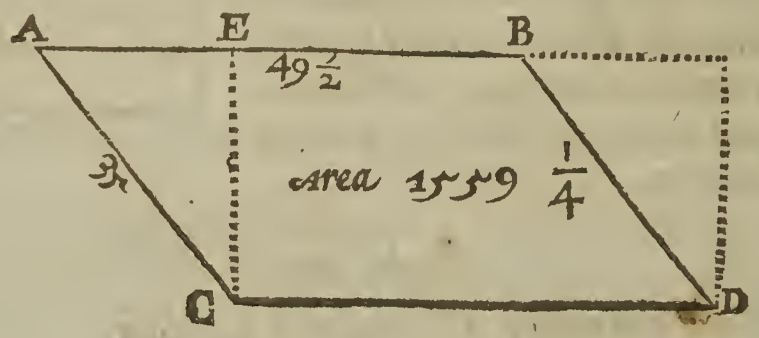
Let A B C D, be an irregular Rhombus, whoſe ſides ſhall be 21 $\frac{3}{4}$. and let the propoſition bee to caſt up the content thereof: firſt let fall the perpendicular B E, which applied to the ſame ſcale from whence the ſide A B, was taken, will be found to be 9 $\frac{1}{2}$ which if you multiply by the ſide 21 $\frac{3}{4}$. it gives you the content of the Rhombus, which is 205 $\frac{5}{8}$. that divided by 60. giveth one acre 45 perches.



Prob. 19.

To meaſure a Rhomboydes.

Every Rhomboides is meaſured, as long ſquares and Rhombus are meaſured, by multiplying the perpendicular in the baſe.



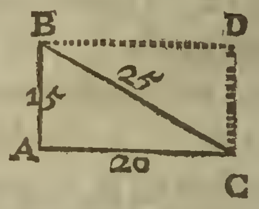
Example.

Let A B C D, be a Rhomboides to be meaſured, whoſe ſides are 49 $\frac{1}{2}$. and 35. firſt let fall the perpendicular E C, which being applied to the ſame ſcale (from which the other ſides were taken) it ſhall bee found to containe 31 $\frac{1}{2}$. which multiplied by the baſe 49 $\frac{1}{2}$ produceth 1559 $\frac{1}{4}$. which being reduced to acres, as I have ſhewed, is 9 acres 119 $\frac{1}{4}$ perches.

Prob. 20.

To meaſure a right angled triangle.

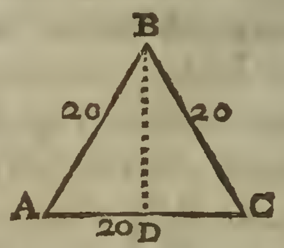
All triangls whatſoever conſiſting of right lines, are meaſured by multiplying $\frac{1}{2}$ the baſe with the perpendicular, or halfe the perpendicular with the baſe, or elſe multiplying both together, and take halfe that product ſheweth the content, wherfore if you multiply 15 by 10 which is halfe the baſe ſa. 150 for the content of the triangle A B C, which was required.



Prob. 21.

To meaſure an Equilater triangle without finding the length of the perpendicular.

Multiply $\frac{1}{2}$ of one of the ſides in it ſelfe, and that product againe by the $\frac{1}{2}$, that number multiplied in halfe the perimeter, and from that product the ſquare root extracted, anſwereth the demand.



Example.

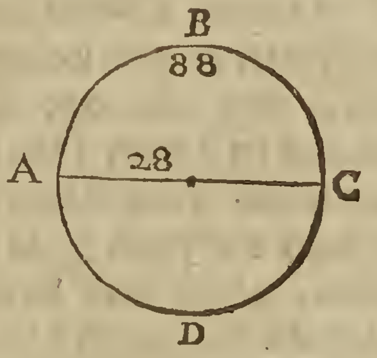
Let A B C, be an equilater triangle to bee meaſured, whoſe ſides are 20, which being halfed is 10, whoſe ſquare is 100. which multiplied againe by 10 ſa. 1000. and being multiplied by $\frac{1}{2}$ the perimeter, which is 30. ſa.

30 ſa. 30000. whoſe ſquare root being extracted is √173 for the content of the triangle A B C, which was required.

Prob. 22.

The diameter of a circle being given to finde out the circumference.

Every circumference is more than triple his diameter, by ſuch proportion as is more than $\frac{10}{17}$. and leſſe than $\frac{1}{7}$. but the neareſt rationall proportion betweene the diameter and circumference, is as 7 to 22.



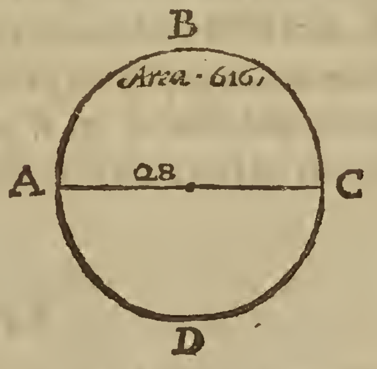
Example.

Let A B C D, be the circumference given whoſe length is required, and let A C, the diameter be 28. I demand the length of the circumference; multiply alwaies the diameter by 22. and divide that product by 7. you have your deſire; ſo 28. by 22. ſa. 616. which devided by 7. the quotient is 88. for the circumference required.

Prob. 23.

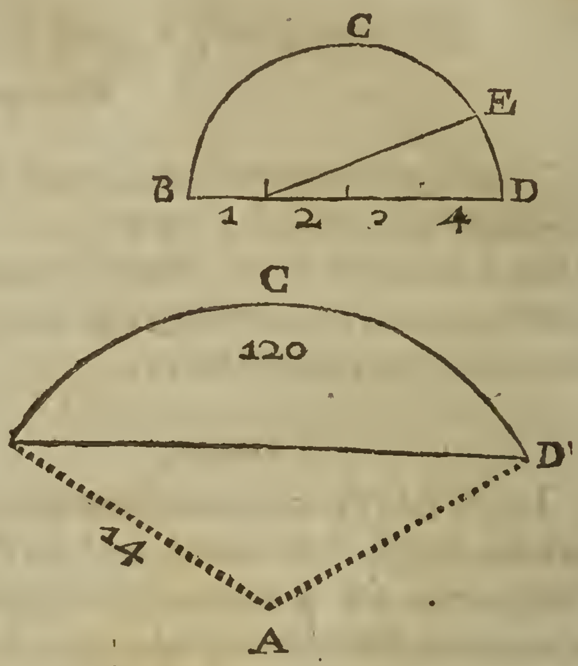
To meaſure a circle.

Every circle is $\frac{11}{14}$. of the ſquare made of his diameter, therefore ſquare the diameter, which ſhall be 28. ſa. 784. which multiplied alwaies by 11. and that ſumme divided by 14. the quotient will be 616. for the area or content of the circle, A B C D.



Prob. 24.

To give the extenſion of the arch line.



LEt B C D. bee an arch line given, whoſe length is required: firſt, draw the cord line B D, which muſt be alwaies divided into foure equall parts, as you ſee numbred, 1, 2, 3, 4. then take one of thoſe parts, and ſet it from D to E, upon the arch line. That done, draw a line from the point E, to the firſt diviſion, which ſhall be 1 E, this line is halfe the length of the arch line, B C D.

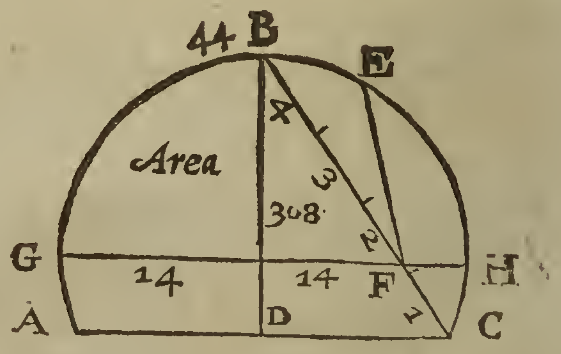
Arithmetically.

Let B C D. be an arch line, whoſe length is required: firſt finde out the center (by the tenth propoſition) to that circle whereof B C D, is a part of the circumference. Then take A B, or A D, and apply it to ſome ſcale, to finde the length thereof, which let be 14. then is the whole diameter 28, whoſe circumference will be 88. then finde the quantity of the angle B A D, which you ſhall doe after this manner: take the ſemidiameter, and fit it on a corde of 60 degrees, then take off the line B D, in the ſame corde, and you ſhall finde it to be an arch of 120 degrees. Laſtly, ſay by the rule of 3. if 360 were 88 parts, what ſhall 120 ſa. $29\frac{1}{3}$. the length of the arch line which was required.

Prob. 25.

To meaſure a ſemicircle.

Theor.



EVery $\frac{1}{2}$. Circle is equall to that long ſquare which is made of the ſemidiameter and halfe the arch line, therefore multiply halfe the arch line by the ſemidiameter, and the product ſheweth the content of that halfe circle.

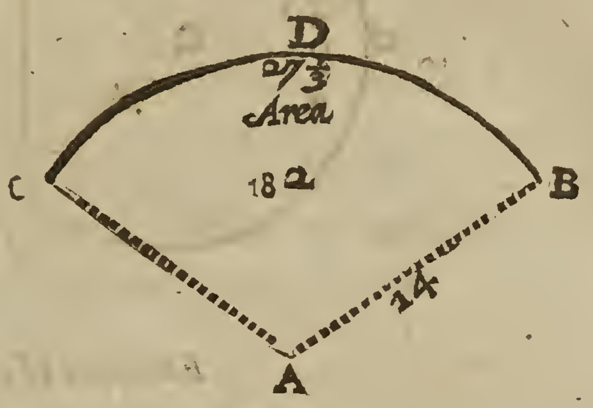
Example.

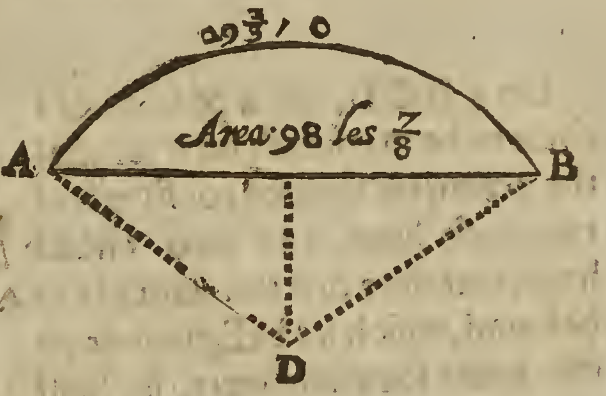
Let G B H, be $\frac{1}{2}$ a circle to be meaſured, whoſe diameter G H, is 28, the whole circumference is found to be 88. and conſequently the halfe is 44. which is G B H, halfe which is 22. multiplied by the ſemidiameter 14 ſa. 308 for the area of the ſemicircle, which was required.

Prob.

Prob. 26.

To meaſure any portion of a circle.





NOta: You muſt underſtand that 6 ſorts of portions of circles may be given to be meaſured, and the reaſon of all theſe meaſurings, is grounded on this Theorme following.

Theo. Every portion of a circle which is contained under two ſemidiameters, and one arch line, is equall to that long ſquare, whoſe length & bredth is equall to the ſemidiameter, & $\frac{1}{2}$ the arch line, therfore in any ſuch portion, multiply $\frac{1}{2}$ the arch line by the ſemediameter, and it ſheweth the Area or content thereof.

Example of the firſt.

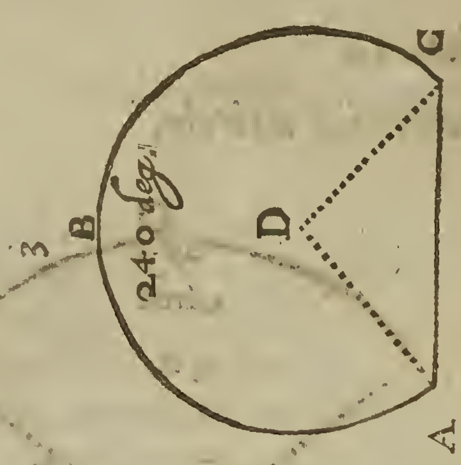
Let A C D, be a portion of a circle, whoſe Area is required: firſt, the ſemidiameter A B, is 14. and the arch line B C D, is found to be 27$\frac{1}{3}$. halfe whereof is 13$\frac{1}{6}$. which multiplied by 7. the ſemidiameter produceth 182. for the Area of A B C D.

Example of the ſecond.

Let A B C, be a portion of a circle to be meaſured, now for that it is not included with two ſemediameters and an arch line, therefore you muſt draw the two ſemediameters A D, and B D, ſo ſhall you include the triangle A B D, more then the cantell A B C, now firſt meaſure the whole figure A C B D, by the laſt propoſition, whoſe Area will be γ 182. Then meaſure the Iſoſcheles triangle A B D, whoſe Area will bee γ.7203. and neere rationall, 84$\frac{7}{8}$. which taken from 182. leaveth 97$\frac{1}{6}$. for the Area of the Cantell A C B.

Example of the third.

Let A B C, be a portion of a circle, whoſe Area is required; now for that the whole conſiſteth of an arch line, and a chord line; therefore firſt finde out the center D, then draw the two ſemidiameters D A, and D C, and finde the content of the figure C A D, and B, by multiplying $\frac{1}{2}$ the arch line A B C, which containeth 240 degrees, and ſo conſequently is 58$\frac{2}{3}$ whoſe $\frac{1}{2}$ multiplied by 14. the ſemediameter, the product will be 410$\frac{2}{3}$ for the area of A B C and D, to which the triangle being added, whoſe area is γ.7203. and neere rationall 84$\frac{7}{8}$ maketh 495$\frac{13}{14}$. for the whole area or portion of the circle A B C, which was required.



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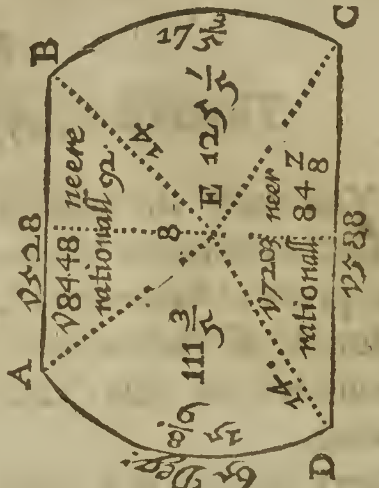

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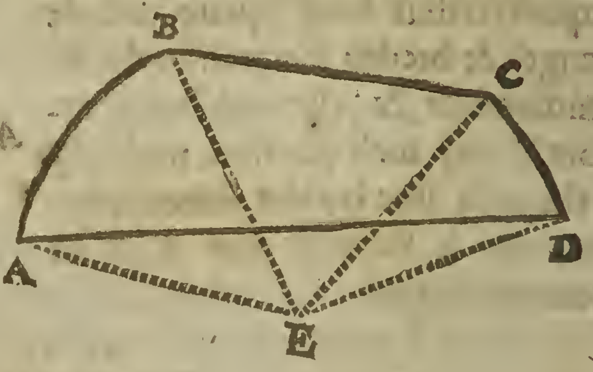
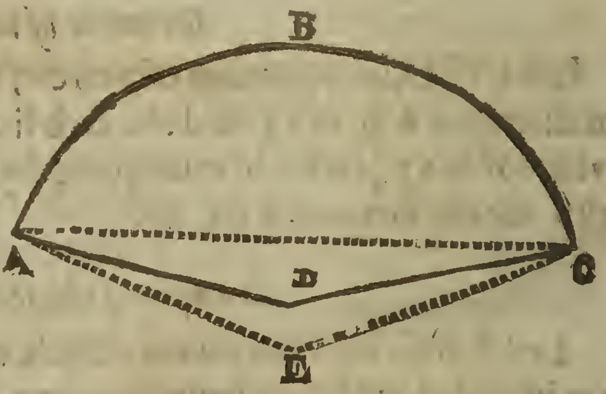
Example of the fourth.

5



Let A B C D, be a portion of a circle to be meaſured; now for that the perimeter thereof conſiſteth of two arch lines, and two chord lines; therefore firſt the center is to be found, which let be E, then draw the foure ſemediameters, ſo ſhall you reduce that figure or portion of a circle like unto the firſt Example, all which foure figures being meaſured, as hath beene taught, you ſhall finde the content of the whole figure to be 411. $\frac{107}{360}$.



Example of the fifth.

6

Let A B C D, be a portion of a circle to be meaſured, being incloſed, in which are two chord lines, and two arch lines, but whereas in the other Example, laſt before the center was in the figure, in this the center is without, yet as in all the reſt, ſo in this the center is to be found, which let be E, then draw the foure ſemediameters, ſo ſhall you reduce the figure A B C D, and E, into three figures like the firſt example, and one Iſoſcheles triangle E B C, theſe three figures are to be meaſured, as hath beene before taught; and from the ſuperficies therof, the triangle A D E, is to be ſubtracted; the remainder ſheweth the area of the figure A B C D, which was required.

Example of the ſixth.

Let A B C D, be a figure given to be meaſured, firſt let the center bee found, then draw the ſemediameter A E, and E C, ſo ſhall you include a figure like to that in the firſt example, that done, meaſure the content of of the cantle A B C, by the ſecond Example, to which content the ſuperficies of the Triangle A D C being added, maketh the arch of the whole figure A B C D which was required; and ſo much ſhall ſuffice for meaſuring of ſuperficiall formes, for that no ſuperficies can be made, but muſt be ſubject to ſome of thoſe formes.

How to performe (Reduction, Addition, Subſtraction, Multiplication, and Diviſion, with the *Rule of Proportion*) *by Geometrie, and firſt for Reduction.*

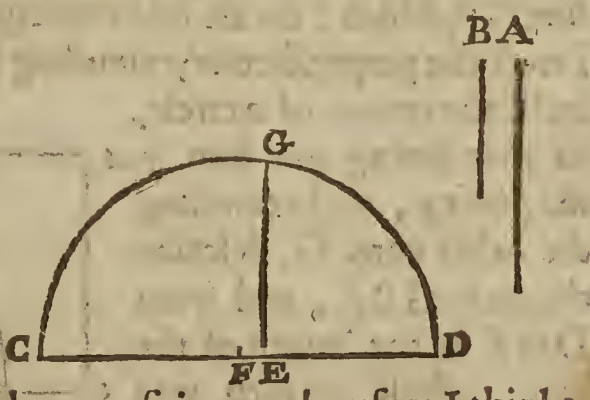
Reduction is a converſion of one Geometricall figure into another, and yet to keepe the ſame ſuperficiall content.

Prob. 27.

How to make a Geometricall ſquare of two lines, whether they be equall or unequall.

THis is done as I have formerly ſhewed you, Probleme eighth, by finding the meane proportion betweene the two lines given, which meane proportion is the ſide of the Geometricall ſquare.

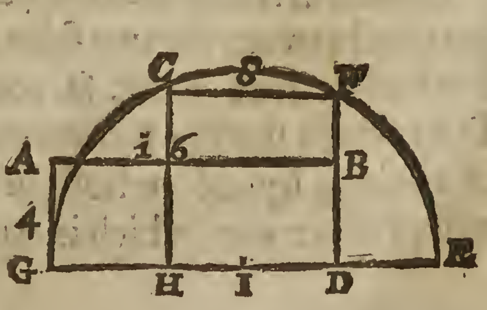
Example.



Let the Lines A B be given, I ioyn them together in the point E then finding the centre (as I have ſhewed) I deſcribe the arch C G D ſo erecting the perpendicular E G, it is the ſide of the Geometricall ſquare anſwering to thoſe two lines A B, to performe this arithmetically is in all points the ſame, as the eighth propoſition, wherefore I thinke it ſuperfluous to treate of the ſame againe.

Prob. 28.

How to reduce a long ſquare into a Geometricall ſquare.



THe operation of this is the ſame with the other, for if you adde together the length and breadth, and on that line deſcribe a ſemicircle, and from the concurring point erect a perpendicular till it cuts the arch, the length of that line ſhall be the ſide of the Geometricall ſquare containing the long ſquare.

Example

Example.

Let the long ſquare A B C D, be reduced into a Geometricall ſquare, I adde the breadth to the length, & extend the line to E: then deſcribing the arke G C E, I erect a perpendicular, from the point D, which extended to the Circumference, cuts it in F, ſo is D F the ſide of the Geometricall ſquare C H F D: containing the long ſquare A B C D, to performe the ſame arithmetically, multiply the length in the breadth; and from that extract the ſquare Root which is the ſide required.

Example.

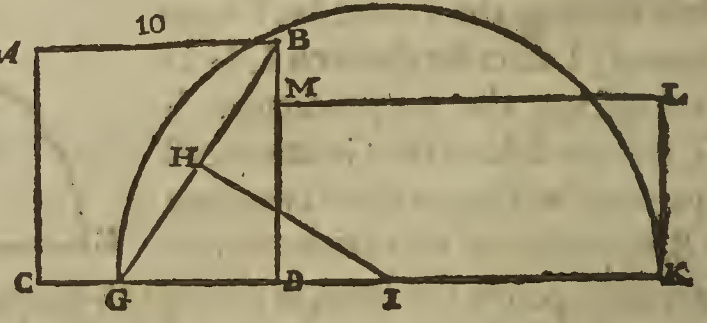
Let the length A B be 16 the breadth A C 4, which multiplied together produce 64, whoſe ſquare Root is 8, the ſide of the Geometricall ſquare, which was reqnired.

Prob. 29.

How to reduce a Geometricall ſquare, into a long ſquare, whoſe length or breadth is given.

Example.

Let the Geometricall ſquare A B C D be given, to be reduced into a long ſquare whoſe breadth ſhall be D M, firſt I inlarge the ſide C D towards K, then ſetting downe the breadth from D to G, I draw the line G B, which I divide into two equall parts in the point H, and on that I erect the perpendicular, extending it till it concurre in the point I, which let be the centre of a circle, ſo that ſetting one foot in the point I, and extending the other unto G, deſcribe the arch G B K, and from D to K is the length of the long, whoſe breadth was formerly given, ſo have you the long ſquare K L M D, equall to the Geometricall ſquare A B C D, which was required to be done,



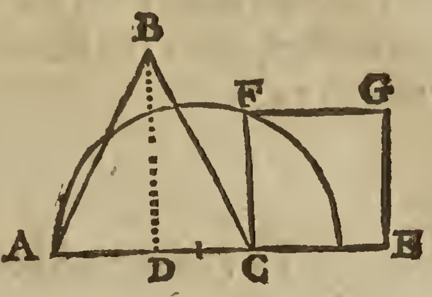
Arithmetically.

Becauſe as is aforeſaid the ſide of the Geometricall ſquare is a mean proportion between the two ſides of the long ſquare. Therefore ſquaring A B which is here tenne, ſa. 100, and dividing the product by the ſide D M, which ſhall be 8, there commeth in the quotient 12 ½ for the length of the long ſquare, whoſe breadth is 8, and being multiplied together will produce 100, which is equall to the Geometricall ſquare A B C D.

Prob.

Prob. 30.

To reduce a Triangle into a Geometricall Square.



Let there be a Triangle given, to be reduced into a Geometricall ſquare, find the meane proportion betweene halfe the perpendicular and the baſe, and it ſhall give you the ſide of the Geometricall ſquare.

Example.

In the triangle A B C the perpendicular is B D, whoſe halfe I ſet off from C towards E, then taking the midſt of that line I ſet one foot of the compaſſe, and extend the other towards A, deſcribing the arch A F E, then raiſing the perpendicular from the point C, I obſerue where it interſects in the arch which is in the point F, ſo that C F G is the ſide of the Geometricall ſquare containing the Triangle.

Arithmetically.

Multiply the perpendicular, in halfe the baſe, and from that ſumme, extract the ſquare Root, which ſhall be the ſide of the ſquare required.

Example.

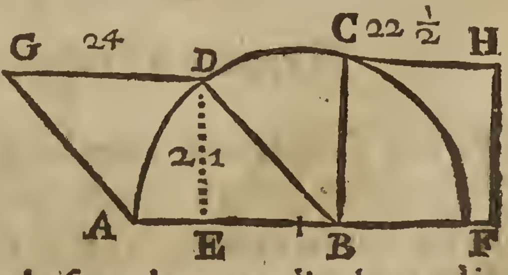
Let the perpendicular B D be foure, and the baſe A C ſixe, multiply the perpendicular foure by $\frac{1}{2}$ of the baſe which is three fa. 12 whoſe ſquare Root is √ 12 neere Rationall 3 $\frac{1}{2}$ which is the ſide of the Geometricall ſquare F G equall to the Triangle A B C which was required.

Prob: 31.

How to reduce a Rhombus into a Geometricall ſquare.

A Rhombus (as I haue ſhewed you in my definitions) hath equall ſides, wherefore if you open your compaſſes to the length of any one ſide, and to it adde the perpendicular, the meane proportion between thoſe two ſhall be your deſire.

Example.



Let there be giuen the Rhombus A B C D to be reduced into a Geometricall ſquare, I lay downe the ſide A B, and to it I adde the perpendicular D E, which makes the line A F, then on the point B, I erect the perpendicular G B, which is a meane proportion betweene the baſe and perpendicular, and is the ſide of a Geometricall ſquare, containing the Rhombus, which was required.

Arith-

Arithmetically.

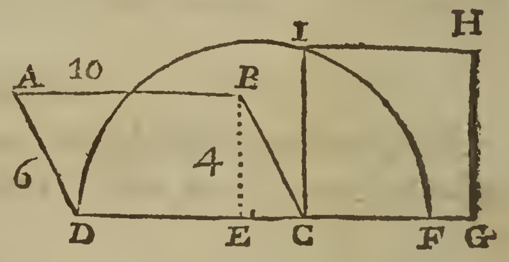
Multiply the ſide of the Rhombus which is 24 with the perpendicular, which is here 21, and the product is 504 whoſe ſquare Roote being extracted, gives the ſide of the Geometricall ſquare G H, and is neere rationall 22 $\frac{5}{10}$.

Prob. 32.

To reduce a Rhomboydes into a Geometricall ſquare.

IN this you muſt let fall the perpendicular, as in the former, and find a meane proportion, betweene that and the ſide whereon it falleth, and that ſhall be the ſide of the Geometricall ſquare.

Example.



Let A B C D be the Rhomboides C D, the ſide on which the perpendicular falleth B E the perpendicular, which joyned together make the line C F; then from the point C raiſe a perpendicular interſecting the circumference in I, ſo that C I is the ſide of the ſquare containing the Rhomboides which was required.

Arithmetically.

You ſhall worke for this as you did the Rhombois, for letting fall the perpendicular, and finding the meane proportion, betweene that and the baſe whereon it falleth, is the ſide of a Geometricall ſquare, anſwerable to the Rhomboides.

Example.

Let the ſide A B be ten, and the perpendicular foure, which two being multiplyed together make fortie, whoſe ſquare Roote is $\sqrt{40}$, and neere Rationall is 6 $\frac{1}{3}$ which is the ſide of the Geometricall ſquare C I, which was required.

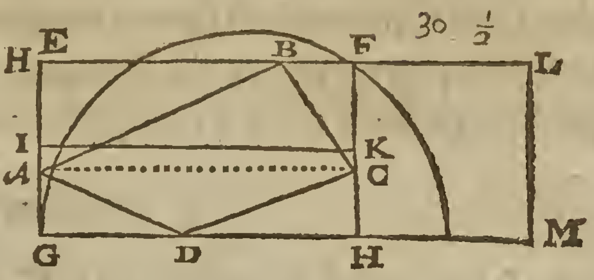
Prob. 33.

To reduce a Trapezium into a Geometricall ſquare.

IF in a Trapezium, a line be drawne from any one angle, and of that line a parallelogram be made comprehending the Trapezium, and parallell to the line ſo drawne, halfe that parallelogram is equal to the Trapezium, ſo that finding the meane proportion betweene the two ſides of the long ſquare, you ſhall have the ſide of a Geometricall ſquare.

Example.

Let therebe given the Trapezium A B C D, firſt draw the line A C, then by the Angles B D, draw two lines parallels to A C, and from the extreame partes of one to the other draw the lines F H E G ſo haue you a parallellogram double to the Trapezium, which if you cut in halfe by the line I K, you have the parallelogram equall, ſo that finding the meane proportion betweene the two ſides, you ſhall have the ſide H F, which is the ſide of the Geometricall ſquare as was required, and drawing the line E H, have a Triangle containing the ſame proportion which is E G H, equall to the ſaid ſquare.



Arithmetically.

This may be reduced Arithmetically by making the parellelogram, comprehending the Trapezium, which is E F G H.

Example.

Let the Trapezium A B C D be given firſt, I draw the lines E F G H parallel to A C, which I find to be ſixtie, & from the extreme parts of one to the other, I draw the lines E G F H, which I find to be 31, which being done I multiply $\frac{1}{2}$ of the one by the whole of the other, ſo that it produceth 930, for the ſuperficiall content; whoſe ſquare Root is $\sqrt{930}$ neere Rationall $30\frac{1}{2}$ which is the ſide of the Geometricall ſquare equall to the Trapezium, which was required.

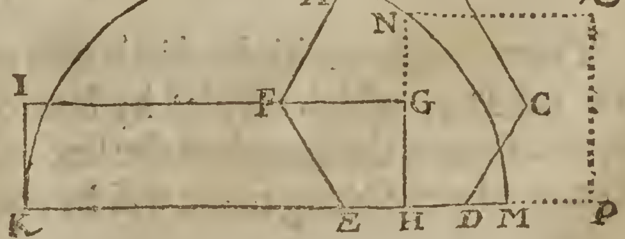
Prob. 34.

To reduce any Regular Polligon, into a Geometricall ſquare.

A Regular Polligon is that which hath all his ſides equall, whether it be Pentagon, Hexagon, or Heptagon, now to reduce any of thoſe figures, there is a generall Rule, which is this, find the mean proportion betweene the Semiperimeter and the perpendicular, and that is the ſide of a Geometricall ſquare containing the ſaid Polligon.

Example.

Let there be given the Hexagon A B C D E F, firſt I lay downe the Semiperimeter K H, and to that I adde the perpendicular G H, which makes the line K M, ſo that I make that the diameter to the ſemicircle K A M, then I raiſe the perpendicular



from

from the point H, till it cut the circumference in N, ſo that H N is the ſide of the Geometricall ſquare required, note that in all regular Polligons the long ſquare made of the Semiperimeter, and the perpendicular is equall to the ſaid Polligon, as appeares by this figure.

Arithmetically.

Firſt find out the perpendicular G H, which you ſhall find to be neere $8\frac{1}{2}$, then multiply that in the Semiperimeter, which is thirtie, fa. 255, for the content of the figure, whoſe ſquare Root is 255, and neere Rationall ſixteen, for the length of H N, the ſquare whereof being made, ſhall be equall to the Polligon given, which was required.

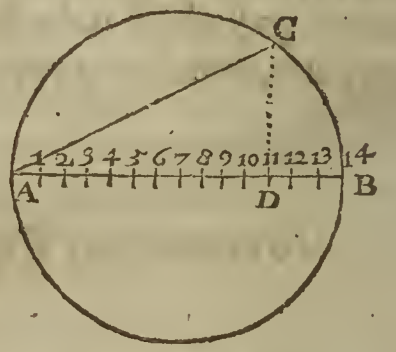
Prob. 35:

To reduce a Circle given into a Geometricall ſquare.

HAving deſcribed a circle, draw a diameter, which let be divided into fourteen parts, & on 11 of thoſe parts erect a perpendicular, which extend to the circumference, and from the point of interſection draw a line to the extreame part of the diameter, which line ſhall be the ſide of the ſquare containing the proportion of the circle.

Example.

Let the circle given be A C B A, the diameter A B being divided into fourteene parts, take 11 of thoſe parts which is at D, and erect the perpendicular C D, then draw a line from the point C to the extrem part of the diameter which is to A, ſo the line A C is the ſide of the ſquare proportionable to the circle which was required.



Arithmetically.

Firſt, let the diameter given to 28, which ſhall be multiplyed in it ſelfe, and that product by 11, then divide the whole by fourteene, the quotient anſwereth to your queſtion.

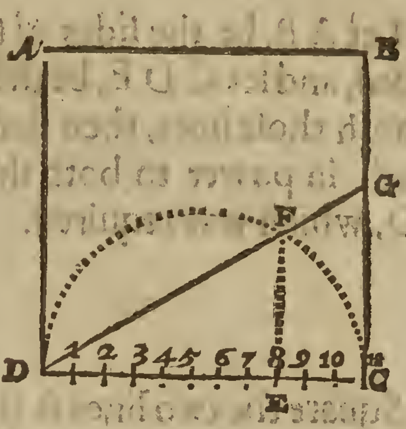
Example:

Twenty eight multiplyed in it ſelfe produceth 784, that multiplyed by 11 is 8624, which divided by fourteen, the quotient is 616, whoſe ſquare Root is the length of the line A C $\sqrt{616}$, neere Rationall $24\frac{4}{5}$, a ſquare whereof being made will be equall to the circle given.

Prob.

Prob. 36.

To reduce a Geometricall ſquare into a circle.



HAving laid downe a ſquare to bee reduced into a circle, take any ſide of it, and divide it into 11. parts, deſcribing a ſemicircle to the ſaid diameter, then on eight of thoſe parts, erect a perpendicular, which extend to the circumference of the ſemicirle, then draw a line from the extreame part of the diameter, interſecting the perpendicular in the circumference of the circle, and continue that line till it touch the ſide of the ſquare, ſo that line will bee the diameter of a circle anſwerable to the ſquare.

Example.

Let the ſquare A B C D, be given, making C D, the diameter, I deſcribe the ſemicircle C F D, then having divided the diameter into 11 equall parts, I take eight of thoſe parts, and there I erect the perpendicular E F, then I draw a line (from the extreame part of the diameter) which interſecteth the perpendicular in the circumference, which being continued, gives the line D G, the diameter of the circle required.

Arithmetically.

Firſt ſquare the ſide of the ſquare given, which is here 10. fa. 100. which muſt be multiplied alwaies by 14, and produceth 1400. this product likewiſe muſt be alwaies divided by 11, which make $123\frac{3}{7}$ the ſquare root whereof is $\surd\,127\frac{3}{7}$. and neere rationall $11\frac{3}{5}$. for the length of the line D G, ſo that a circle made, whereof D G, is the diameter, is equall to the ſquare A B C D, which was required.

Of Addition Geometricall.

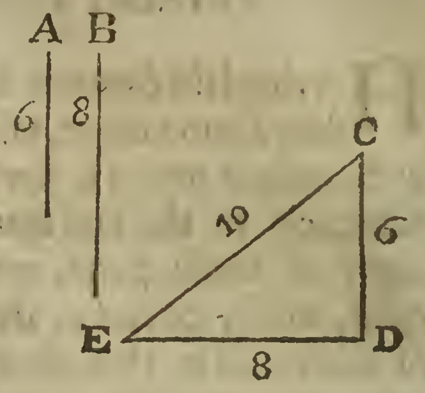
Definitio. Addition is the producing of many figures in one, and to retaine the ſame quantity.

Prob. 37.

To adde two ſquares together.

HAving the ſides of two ſquares, make thereof a right angle, and from the two extreames, draw a right line, which ſhall bee the ſide of a ſquare, containing the other two.

Example.



Let A B, be the ſides of two ſquares to bee added, and let C D E, be the right angle made of both thoſe lines, then ſhall the line C E, be equall in power to both the lines, C D, and E D, which was required.

Arithmetically.

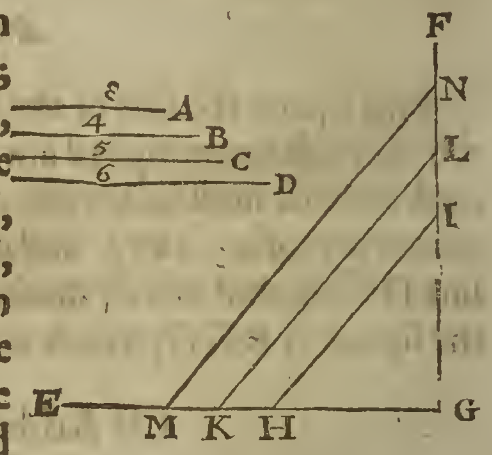
Square the two lines A B, adding their two ſquares together, and from that ſumme extract the ſquare root, which ſhall be the ſide required.

Example.

Let the line A be 6. which ſquared, ſa: 36. againe the line B, ſhall bee 8. which ſquared, ſhall be 64. theſe ſquares being added, ſa. 100. from whence extracting the ſquare root, ſa. 10. which is the ſide of the ſquare equall to the other two ſides given, and is the line E C.

Prob. 38.

To adde divers ſquares together.



LEt A B C D, be the ſeverall lines which repreſent the ſides of ſeverall ſquares; firſt, I make a right angle which is E F G, and from the point G, to H, I ſet off the line A, and from the ſame point toward I, I ſet off the line B, then I draw the line H I, which containeth both thoſe ſquares, then ſetting off that line from G to L, and the line C from G to K, I draw another line from thoſe two points, which is K L, and doth containe thoſe three ſquares, then I take that line K L, and ſet it off as I did the former, and the line D on the other ſide, and draw the line M N, which containeth the foure ſquares made of A B C D, which was required.

Arithmetically.

Square each line or ſide particularly, then adde thoſe ſummes together, and from the whole, extract the ſquare root, which ſhall bee the ſide of a ſquare, containing all the other.

Example.

Let the ſide A be 3 whoſe ſquare is 9. againe the line B ſhall be 4 C 5 and D 6. the ſquares of each being 9, 16, 25, 36. which added together, make

make 86. the ſquare root whereof is √ 86. and neere rationall $9\frac{1}{4}$. for the line M N, which is the ſide of a ſquare equall to the ſides A B C D, which was required.

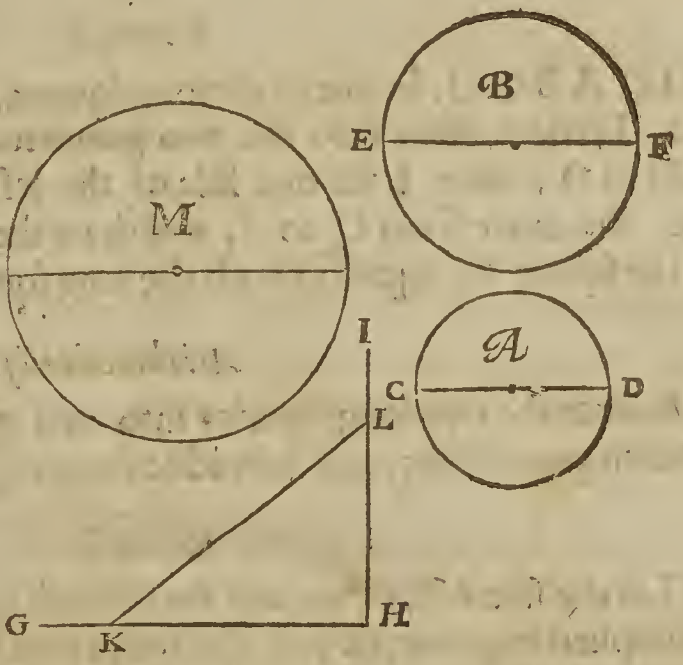
Prob. 39.

To adde two circles together.

IN all circles the diameters are in proportion as the ſides of a ſquare; wherefore if you take the diameters, and worke as you doe for the ſquares, you ſhall have your deſire.

Example.

Let there bee two circles, namely A B, which I would adde together, I take their diameters C D, and E F, and ſet them off in the right angle G H I, and from the two points K L, (which is the length of each diameter) I draw a line which is the diameter of a circle containing both the former, which was required to be done.



Arithmetically.

Square the diameter of each circle, adding their ſquares together, and extracting the ſquare root from the ſumme, it ſhall be the diameter of a circle, containing the other two.

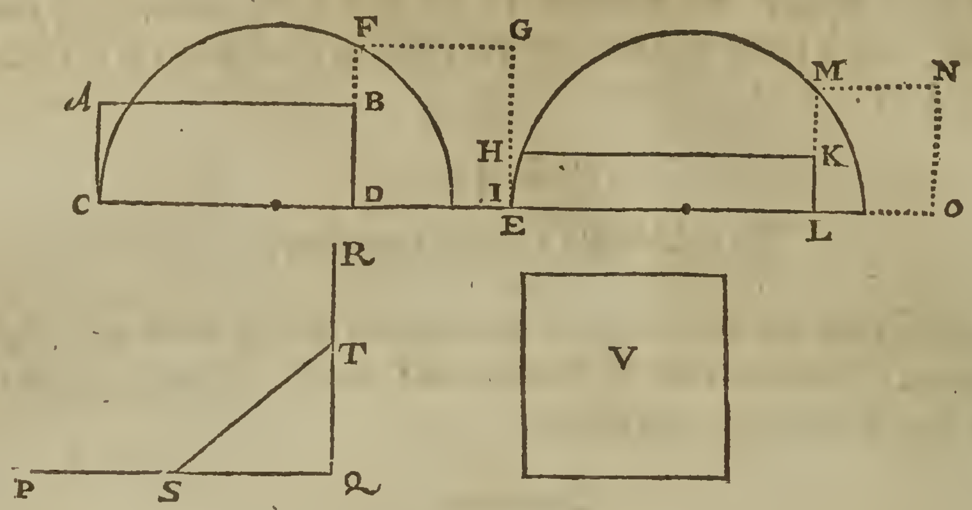
Example.

Let the diameter of A be 10. which ſquared, fa. 100. likewiſe the diameter of B, ſhall be 13. which ſquared, fa. 169. which added to the other, fa, 269. the ſquare root whereof is √ 269. neere rationall $16\frac{2}{7}$ which is the diameter of the circle, containing the other two, which was required.

Prob. 40.

To adde two long ſquares together.

FIrſt, reduce your long ſquares into geometricall ſquares, as I have ſhewed you, and then proceed according to the two former propoſitions.



Example.

Let A B G D, be one of the long ſquares, and let H I K L, bee the other. I reduce them into the two geometricall ſquares, D E F G, and L M N O, then I ſet one ſide of the leſſer ſquare from Q to T, and the other from Q to S, and draw the line T S, which is the ſide of the ſquare V, equall to both the long ſquares, which was required.

Arithmetically:

Reduce the two long ſquares into two geometricall ſquares, by the twelfth propoſition, and then adde them together by 21 propoſition.

Example.

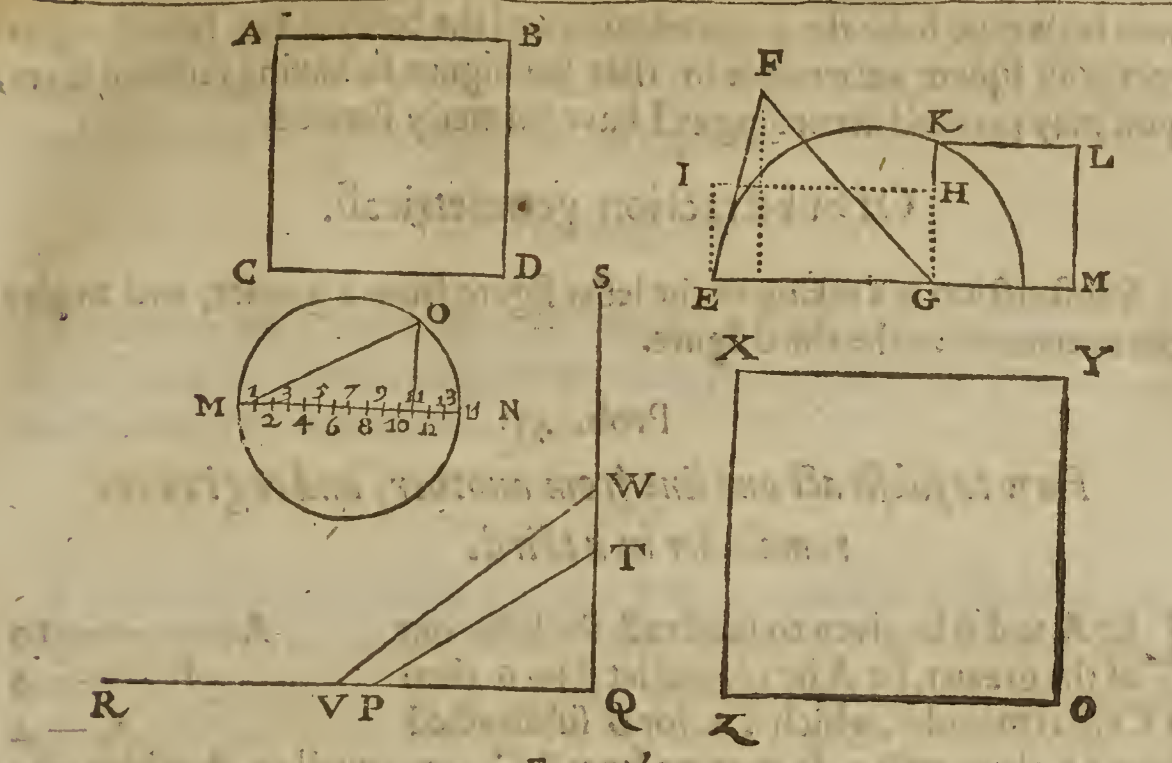
Let the ſide A B, be 40, and the breadth thereof ſhall bee 10. which multiplied together, ſa. 400. the ſquare root whereof is 20. the ſide of the geometricall ſquare anſwerable to the ſame, but if you take the content of the other long ſquare, and adde it to this, and from the whole, extract the ſquare root, it ſhall be the ſide of a ſquare, containing both the other, ſo the ſides of that being 40 and 13. which being multiplied together, ſa. 520. which added to 400. the content of the other ſa. 920. whoſe ſquare root being extracted, is γ 920. and neere rationall $30\frac{1}{3}$ which is the ſide of a geometricall ſquare, containing both the long ſquares, and is the ſide S T, which was required.

Prob. 24.

To adde divers figures together.

LEt there be a ſquare, a triangle, and circle to be added together; firſt I reduce them into one forme, and then I proceed as before.

Exam-



Example.

Let A B C D, be the ſquare, E F G, the triangle, and M O N, the circle, I reduce the triangle firſt into a long ſquare, and then I finde the meane proportion betweene the two ſides, which is the ſide of a geometricall ſquare equall to the triangle; then I finde the ſquare anſwerable to the circle by a former propoſition, which having done, I make the right angle P Q R, and ſet off the ſide of the ſquare A B C D, from Q to P. and the ſide of the ſquare K L, I ſet off from Q to T, then I draw the line P T, equall to thoſe two ſquares, then I ſet off that line, namely from Q to V, and alſo the line M O, (the ſide of the other ſquare) from Q to W, and draw the line V W, which is the ſide of the ſquare X Y Z O, and is equall to the three former figures which was required to be done.

Arithmetically.

Firſt I finde the content of each of them ſeverally, then adde all thoſe contents together, and the product ſhall be the totall to the demand, the ſquare root of which ſumme being extracted, ſhall be the ſide of the geometricall ſquare, containing the ſame quantity of all the other.

Example.

Let the ſide of the ſquare A B, be 20. then is the content 400. likewiſe the triangle E F G, being reduced, the ſide of his ſquare is found to bee 14. whoſe content is 196. and the circle M O N, being likewiſe reduced, the ſide of his ſquare is 13. which produceth for the content, 169. theſe three ſummes being added, fa. 765. whoſe ſquare root being extracted is √ 765. and is neere rationall $27\frac{3}{4}$ for the ſide of the ſquare W X, which is equall to the three other figures.

Prob. 42.

A generall way for adding all ſorts of figures whether regular or irregular.

LEt there be given what irregular figure you pleaſe, you ſhall firſt draw it forth into triangles, and then obſerve this; (that the meane proportion

tion betweene halfe the perpendicular and the baſe) is the ſide of a geometricall ſquare anſwerable to that ſaid figure, ſo having reduced them, you may proceed according as I have formerly ſhewed.

Of Subſtraction geometricall.

Subſtraction is a taking of the leſſer figure from a greater, and to give the remainder in the third figure.

Prob. 43.

How to ſubſtract one line from another, and to give the remainder in a third.

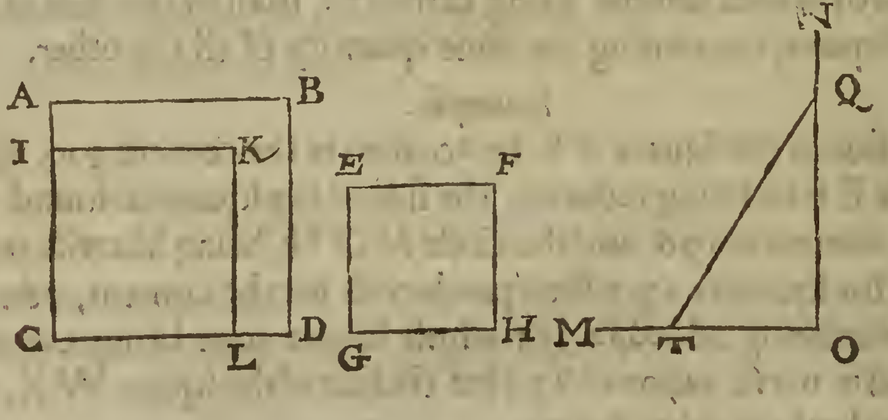
LEt A and B be given to ſubſtract the leſſer out of the greater, let A be 10. and let B be 6. then is C the remainder, which is 4. for 6 ſubſtracted from 10. there reſts 4. ſo the two lines B C, are equall to A which was required to be done.

A———————10
B—————6
C——4

Prob. 44.

To ſubſtract one ſquare from another, and to give the remainder in a third.

LEt A B C D, and E F G H, be two ſquares, it is required to ſubſtract the ſquare E F G H, from the ſquare A B C D, to doe this you muſt firſt make a right angle, and ſet off the ſide of the leſſer ſquare from the right angle on any ſide, and ſetting one foot of your compaſſes in that point (being opened to the diſtance of the ſide of the greater ſquare) extend the other till it cut on the other ſide, and looke where the point of interſection is, for from that point to the right angle, is the length of the third line, or the ſide of a ſquare remaining.



Example.

Let A B C D, be the greater ſquare, E F G H, the leſſer to be ſubſtracted from the greater, I make the right angle M N O, and ſet off the ſide of the leſſer ſquare from the right angle at O to T, then opening the Compaſſes to the ſide of the greater ſquare A B, I take the ſide thereof A B, and ſetting one foot of the Compaſſes in the point T, and with

with the other foot I interſect the point Q ſo the diſtance from O to Q is the ſide of the ſquare I K L C which is the remayner, the leſſer ſquare being ſubſtracted which was required to be done.

Arithmetically.

Square the ſide of each Figure, ſubſtracting the ſquare of the leſſer from the ſquare of the greater, and of the remayner extract the ſquare Root, which anſwers your demand.

Example.

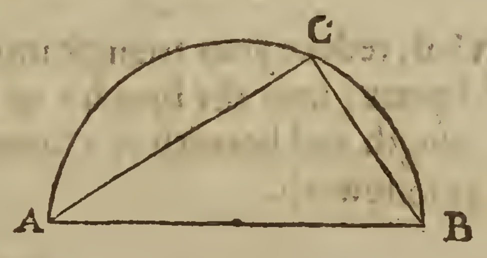
Let the ſide of the greater ſquare A B be 20, which multiplyed in it ſelfe fa. 400, and let the ſide of the leſſer ſquare E F be twelue, which ſquared fa. 144, and being ſubſtracted from 400, the greater ſquares reſts 256 whoſe ſquare Root extracted is ſixteen for the ſide of the remayning ſquare, which is I K, which was required.

Prob. 45.

Another way for working of the ſame.

ON the length of the longeſt ſquare deſcribe an arch, and let that line be the diameter of the ſemicircle, then open your compaſſes to the leſſer ſide, and ſetting one foot of them at the end of the diameter, with the other cut the arch, and from that point of interſection to the other end of the diameter draw a line which ſhall be the length of the third line, or the ſide of a ſquare remayning, the other being ſubſtracted.

Example.

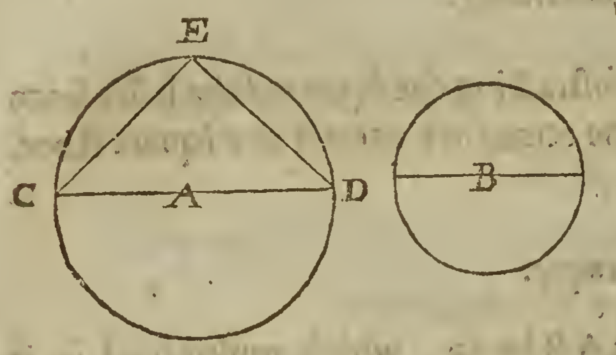


LEt A B bee the ſide of the greater ſquare, open your compaſſes to the ſemidiameter of the line, and deſcribe the ſemicircle A C B, then open your compaſſes to the bredth of the ſquare to bee ſubſtracted, and ſet it off from B to C, then draw the line A C which is the ſide of the third ſquare or remayner, which was required.

Pro.

Prob. 46.

To ſubſtract one Circle from another.



LEt A and B be two circles, the propoſition is to ſubſtract the leſſer from the greater, to doe this and the like, I doe as to the ſquare, that is, I ſet off the diameter of the leſſer circle B from the end of the greater diameter to the point E, which is the interſection of the arch, then I draw the line E C, which is the diameter of a third circle containing the remayne which was required.

Arithmetically.

Square the diameter of each circle, ſubſtracting the leſſer ſquare from the greater, and extract the ſquare Root of the remayne, which ſhall be the diameter of the remayning circle.

Example.

Let the diameter of the greater circle be 20 his ſquare is 400, alſo the diameter of the leſſe ſhall be fifteene, whoſe ſquare is 225, which being ſubſtracted from 400 the greater ſquare, reſts 175. The ſquare Roote whereof is √175, neere rationall 13 $\frac{1}{4}$, which is the diameter of the remayning circle.

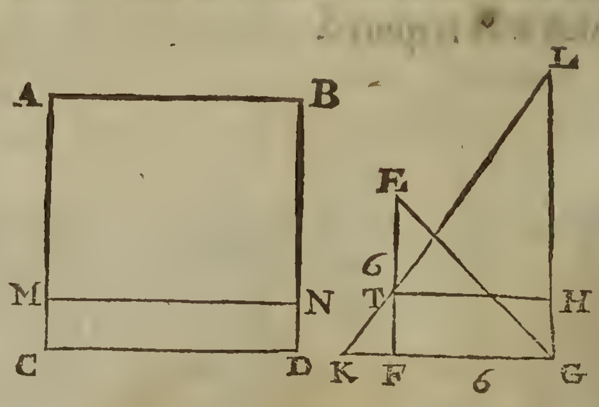
Prob. 47.

To ſubſtract a triangle from a ſquare.

FIrſt, reduce your triangle into a long ſquare, then reduce that long ſquare, into the breadth of your other ſquare, ſo have you the length and breadth of a ſquare to be ſubſtracted, which is performed as followeth.

Example.

Let A B C D be a ſquare from which I would ſubſtract the triangle E F G, firſt I reduce the triangle into the ſquare T F G H, then I reduce that long ſquare into a long ſquar, whoſe ſide is given namely A B C, I find the breadth thereof to be K F, which ſet off from D to N



and

and from C to M, and draw the line M N, ſo that the ſquare C D N M is the long ſquare anſwerable to the triangle given, which being ſubſtracted from the ſquare A B C D, leave the ſquare A B M N, which was required.

Arithmetically.

Caſt vp the content of thē ſquare, and caſt up alſo the content of the Triangle, which having done, ſubſtract the content of the Triangle from the content of the ſquare, the remayner is your deſire.

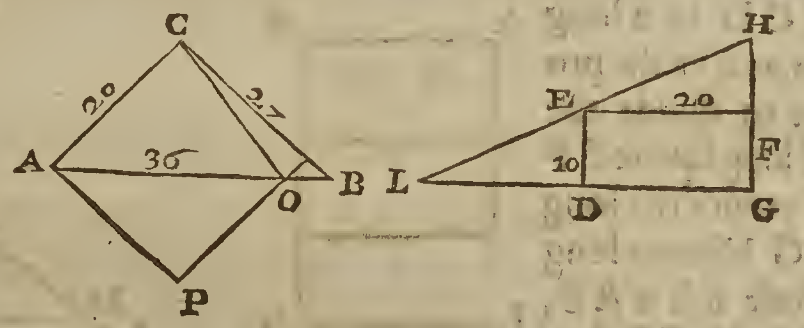
Example.

Let the ſide of the ſquare A B be ten, the whole content whereof is 100, and let the ſides of the Triangle E F and F G be ſix, then the content of it will be found to be eighteene, which ſubſtracted from 100, reſts 78, which was required.

Prob. 48.

To ſubſtract a long ſquare from a triangle given.

LEt A B C be a triangle frō which I would ſubſtract the long ſquar D E F G, which I reduce into another long ſquare containing $\frac{1}{2}$ the ſide A C, for his breadth whoſe length is found by the foregoing propoſition to be L D, which line I draw parallel to A C which is N P, and cutteth the line A B in O, ſo have you the Triangle A C O equall to the long ſquare given, which being ſubſtracted from the Triangle A B C, then reſts the Triangle C B O, which was required.



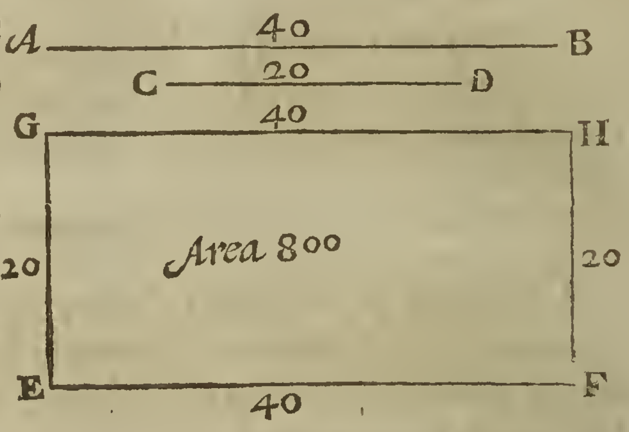
Of Multiplication.

MVltiplication in Geometrie, is nothing elſe, then of lines given to make a ſquare, whoſe area is called the product of the Multiplication.

Prob. 49.

Of two lines given to make a ſquare by Multiplication.

Let the line A B be given to be multiplyed by the line C D, it is no otherwiſe then to produce the long ſquare E F G H, whoſe area or content is the product required, and ſo much for Multiplication.



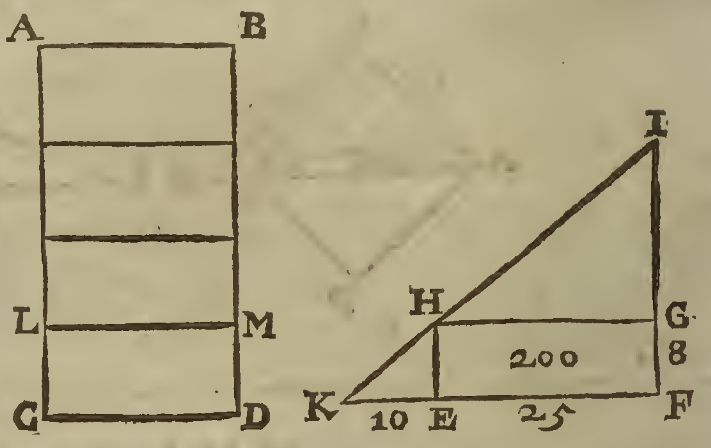
Of Diviſion.

Diviſion is no other then to know how many times one Figure is contained in another, and is wrought after this manner, firſt reduce the dividend and diviſor, both into one length or bredth, then by meaſuring it with your compaſſe, you ſhall finde how many times the leſſer which is the diviſor, is contained in the divident, which produceth a quotient.

Prob. 50.

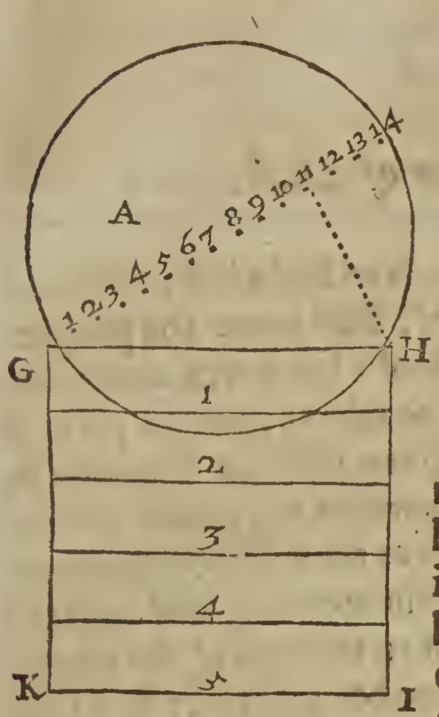
To divide one long ſquare by another.

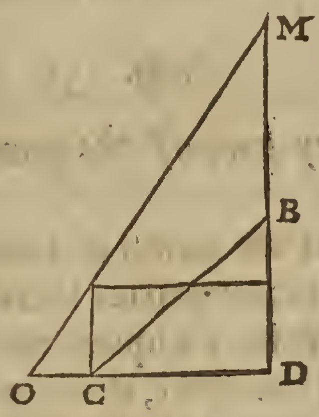
Let A B C D be a long ſquare given, and let the propoſition bee to divide the ſame by the long ſquare E F G H, firſt, I reduce the long ſquare E F G H into a long ſquare, whoſe ſide is A B, and I find it to be K E, then I meaſure that breadth in the ſide E D, and I find it to bee contained foure times, which is the quotient required.



Prob. 51.

To divide a Circle by a triangle.





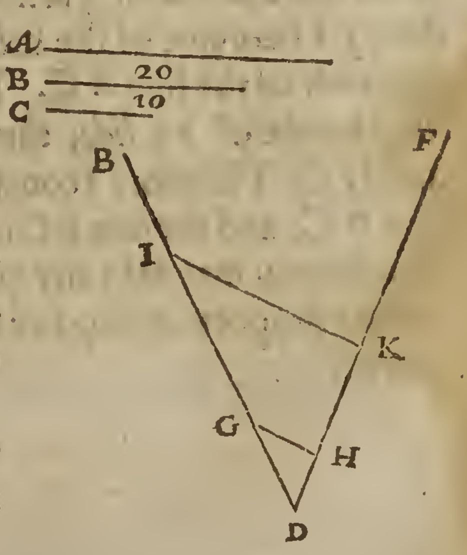
LEt A be a circle given, and let the propoſition be to divids the ſame by the triangle B C D. Firſt, let the circle A be reduced into a ſquare, by the 19 propoſition, whoſe ſide is found G H, and ſo G H I K is the ſquare made equall to the circle, then is the Triangle brought into a long ſquare, whoſe length D M is equall to the ſide of the ſquare G H, the breadth of the long ſquare is alſo found to be O C, which I ſet off, in the ſide of the ſquare from H to I, which is found to be contained therein five times.

To performe the Rule of three, or the rule of Proportion.

THe Rule of three is, of three numbers or three ſtraight lines given, to find a fourth in proportion, that is ſuch a line or number, that may beare ſuch proportion to the ſecond, as the third doth to the firſt.

Prob. 52.

Three lines being given to find a fourth in proportion.



LEt A B C be three lines given, and let the propoſition be to find a fourth in proportion, firſt the angle D E F is drawne, then is the line A ſet from D to I, and the line B is ſet from D to K, then is the line I K drawne, afterward I ſet the line C from D to G, and by the point G is a line drawne parallel to I K, which cutteth the other ſide of the angle in H, and ſo the line G H is found to be the fourth line in proportion, and as the line A is to the line B, ſo is the line C to the line G H, which was required to be done.

FOraſmuch as in the performance of theſe Rules in this Treatiſe, and their demonſtrations, the power of lines is of great uſe, you ſhall underſtand

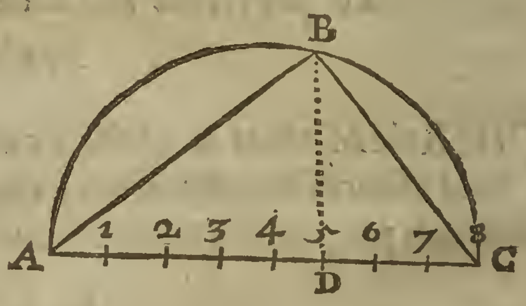
derſtand what the power of lines is, which by the third definition of the tenth Booke of *Euclide*, is ſaid to be the ſquare thereof, or any plaine figure equall to the ſquare thereof, as when the line is in length fiue, the ſquare is 25, ſo that the power of the line is ſaid to be 25, becauſe there will be 25 ſquares contained within the ſame.

Prob. 53.

To take any part of the power of a line.

TO find out any part of the power of a line, is to find a line, whereof a ſquare being made, the ſuperficies thereof, ſhall beare the proportion aſſigned to the ſuperficies of a ſquare made of a line given, as the two given termes beare one to the other, therefore to take any part or parts of the power of a line, doe thus. On the line given deſcribe a ſemicircle, then divide the diameter into as many equall parts as the greater tearme given containeth unites, and on ſo many parts as the leſſer terme containeth unites, raiſe a perpendicular, till it cut in the arch line, and note the interſection in the arch line, for from that point to the end of the diameter, where the part began to be numbred, a line being drawne ſhall containe the proportionall parts required.

Example.



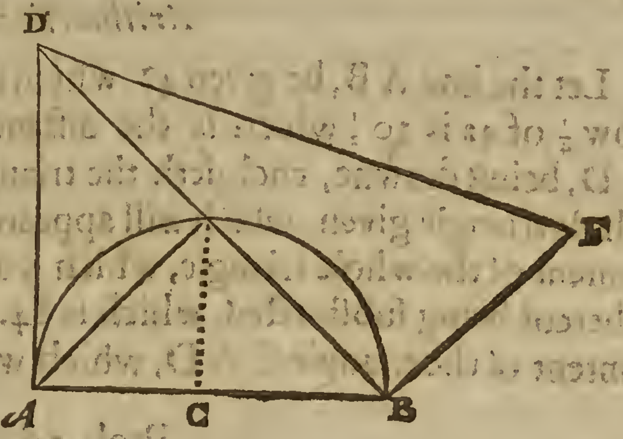
Let A C be a line given, now the queſtion is to find a line that ſhall be in power $\frac{5}{8}$ of the ſame. Firſt, on the line A C is deſcribed a ſemicircle, then is the ſame line divided into eight equall parts (according to the number of the greater terme given) and on five parts thereof (according to the leſſer tearme given) is raiſed the perpendicular B D which cutteth the circumference in B, then are the lines A B and B C drawne. Now for that, by the 31 propoſition of the third Booke of *Euclide*, the angle B is a right angle; Therefore by the 33 Theoreme of the firſt of the ſame, the lines A B and B C are equal in power to the line A C. Then for as much, as by the thirteenth of the ſixth booke of *Euclide*, the line B D is a meane proportion, betwixt A D and D C. Therefore I conclude, that the line A B is $\frac{5}{8}$ of the power of the line A C, and the line B C is $\frac{3}{8}$ of the power of the line A C, and in this manner you may take any part or parts of the power of a line, that is a greater proportionall power given to finde a leſſe in any proportion required.

Prob.

Prob. 29.

To inlarge a line in power according to any proportion given.

TO take any part or parts of the power of a line, is to produce a leſſe line to containe a leſſer proportionall power, ſo to inlarge a line in power, is to produce a line to containe a greater proportionall power, and as the propoſition before was to take $\frac{5}{8}$ of the power of a line: now the propoſition ſhal be to make a line in power to a line given, as 5 to 2. Now for that the power of the line to be produced, muſt containe the line given twice, and $\frac{1}{2}$, for that 2 is contained in 5 twice, and $\frac{1}{2}$. Therefore firſt deſcribe a right angled triangle, whoſe cōtaining ſides ſhal be the length of the line given; and draw the third line, which ſhall bee double in power to the ſame line given; then take halfe the power of the line given, by the laſt propoſition before taught, and raiſe the perpendicular of that length on the end of the laſt found line, and then draw the line which ſubtendeth the right angles, which I conclude by the 33 Theoreme of the laſt book of *Euclide*, to beare that ſuperficiall proportion to the line given, as 5 doth to 2.



Example.

Let A B, be the line given, and let the propoſition be to inlarge a line, that it may have ſuch proportion, to the line given, as 5 to 2. Firſt erect the perpendicular A D, equall in length to the line given, then deſcribe a ſemicircle on the line given, as A E B, then divide the line given into two equall parts, and on the midſt erect the perpendicular E C, then draw the ſubtendent line D B, which by the 47. of the firſt of *Euclide*, is double in power to the line given, then with your Compaſſes take the length of E B, and erect the perpendicular on the line D B, of the ſame length as B F, and laſtly, draw the line D F, which ſhall have ſuch proportion to the line given as 5 to 2.

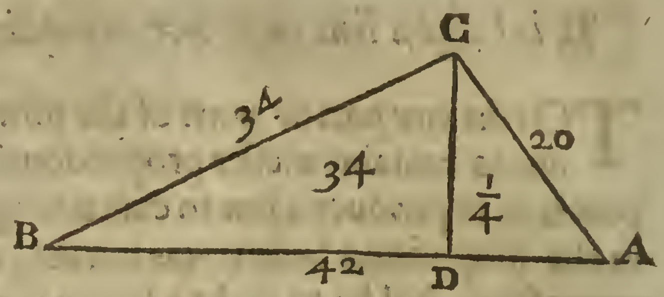
Prob. 55.

To cut off from a triangle any parts, as $\frac{1}{2}$, $\frac{3}{4}$, $\frac{2}{3}$, &c. and with a line iſſuing out of any angle.

TAke $\frac{1}{2}$, $\frac{3}{4}$, $\frac{2}{3}$, or what you pleaſe, of the ſide oppoſite to the angle aſſigned, and from that point draw a line to the angle aſſigned, ſo ſhall you have a new triangle to retaine the parts required.

Example.

Firſt, the $\frac{1}{4}$ of the line A B, being oppoſite to C, is taken or found, which endeth in D, and then the line C D, is drawne, ſo is D C A, $\frac{1}{4}$ of the triangle A C B, which was required.



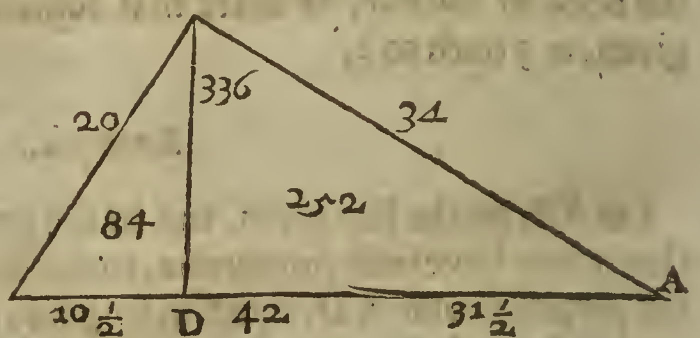
Arithmetically.

Let the line A B, be given 42. which is oppoſite to the angle aſſigned; now $\frac{1}{4}$ of 42 is 10 $\frac{1}{2}$ which is the diſtance from A to D. then the line C D, being drawne, encloſeth the triangle A C D, equall to $\frac{1}{4}$ of the whole triangle given, which will appeare more plainely if you caſt up the content of the whole triangle, which you ſhall finde to bee 336. the $\frac{1}{4}$ whereof being ſubſtracted, which is 84. gives your deſire, and is the content of the triangle C A D, which was required.

Prob. 56.

To cut off from a triangle any parts with a line iſſuing out of an angle aſſigned.

Firſt meaſure the area of the whole triangle, then multiply the ſide oppoſite to the angle aſſigned by the parts to be cut off, and divide the product by the area of the whole triangle; the quotient ſheweth how much you ſhall cut from the line, to make a new triangle, retaining the parts required.



Example.

Let A B C, be a triangle given, and let the propoſition bee to cut off 84 parts, with a line iſſuing from the angle C, and falling on the line A B, and making C B, one of the ſides of the new triangle: firſt the whole content is found to be 336: which having, proceed thus, let 84 bee the numerator, and 336 the denominator, which being abreviated thus, $\frac{84}{336}$: $\frac{21}{84}$ $\frac{1}{4}$. you ſhall finde it to be $\frac{1}{4}$ of the content, then proceed in all reſpects as you did in the laſt propoſition, and you ſhall finde the triangle B C D, containing 84 parts of the triangle A B C, which was required.

Arithmetically.

Firſt, the content or area of the triangle being found to containe 336. and the line A B, is 42. then ſay by the rule of proportion, as the whole area

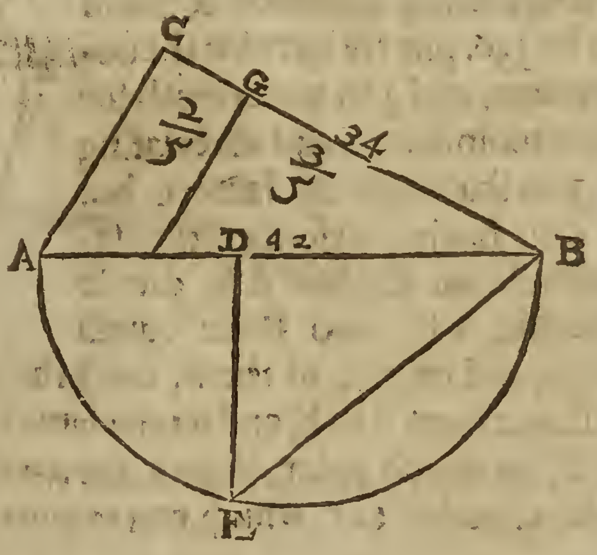
area is to 42. ſo is the leſſer area 84. to a third number, which will bee found to be 10 $\frac{1}{2}$. in the ſame parallel, which ſet from B towards A, it endeth in D, then draw the line C D, and the triangle B C D, doth containe 84 parts, the thing required.

Prob. 57.

To cut off from from a triangle $\frac{2}{3}$, $\frac{3}{4}$, $\frac{5}{9}$, or any other parts with a parallel to any of the ſides aſsigned.

FIrſt ſquare one of the ſides in which you would have the parallel to cut, then worke thus by the rule of proportion, as the greater terme given is to the ſquare of that ſide, ſo is the leſſer terme to a fourth number, whoſe ſquare root being extracted, and ſet off in the ſame line, parallel to the other ſide, you ſhall finde a triangle including the parts required.

Example.



Let A B C, be a triangle from whence $\frac{3}{5}$ is to be cut off with a line parallel to A G, ſo that B C, may bee one of the ſides that the parallel muſt cut; firſt deſcribe a ſemecircle on the line A B, then divide the line A B, into five equall parts, acccording to the greater terme given, and one three of thoſe parts the leſſer terme given, raiſe the perpendicular D E, which cutteth the arch line in E, then draw the line B E, and ſet it off from B to F, and from F draw a line parallel to A C, which cutteth the line G B in G, ſo the triangle F G B, is $\frac{3}{5}$. of the triangle A B C, which was required.

Arithmetically.

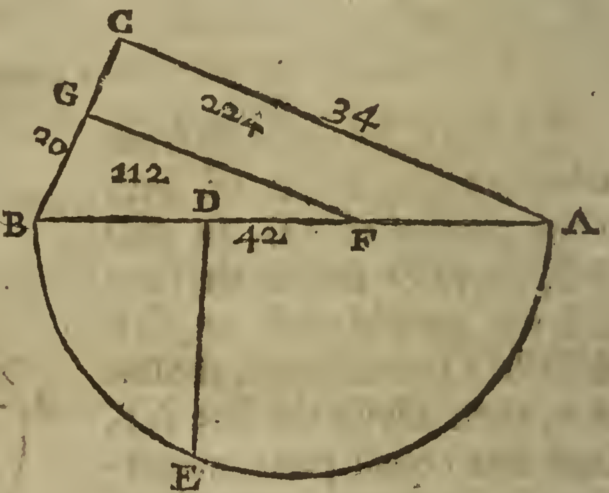
Square the ſide C B, which is 34. fa. 2156. which multiplied by 3. fa. 3468. which divided by 5. the quotient is 694 $\frac{2}{5}$ whoſe ſquare root is $\surd$ 693 $\frac{2}{5}$ neere rationall 26 $\frac{2}{5}$ which is ſet from B towards C, and endeth in G, from which point draw a line parallel to A C, and it cutteth the line A B, in F, ſo is the triangle G B F $\frac{3}{5}$. of the whole triangle, the thing required. After this manner you may reduce any plot into any proportion greater or leſſer at your pleaſure.

Prob. 58.

To cut any number of meaſures from a triangle as 20.40.60.&c. in a triangle proportionall to the triangle given with a line parallel to one of the ſides appointed.

FIrſt meaſure the whole triangle, then ſquare any of thoſe ſides in which you would have the parallel to cut, that ſquare number multiply by the parts given to be cut off, and divide the product by the area of the whole figure, out of which quotient extract the ſquare root, and it ſheweth how much you ſhall take of that ſide of the triangle, to make a new triangle, with which meaſures found, worke as in the laſt propoſition.

Geometrically.



Let A B C, be a triangle from which 112. is to be cut off with a line parallel to the line A C, the triangle being meaſured & found to be 336: put 112 over for the numerator, and 336 underneath for the denominator, and abreviating it, you ſhall finde the ſame to bee $\frac{1}{3}$. then having deſcribed the ſemicircle on the line A B, divide the line A B, into three equall parts, and on one of them, erect the perpendicular D E, then take the diſtance from B to E, and ſet the ſame from B towards A, which endeth in F, by which point, draw a line parallel to A C, ſo the triangle B G F, doth containe 112. which was required.

Arithmetically.

Firſt, ſquare the ſide B C, which is 20. ſa 400. then ſay as 336. is to 400. the ſquare of that ſide, ſo is 112. to 133 $\frac{1}{3}$. whoſe ſquare root being extracted, is $\sqrt{}$ 133 $\frac{1}{3}$. neere rationall 11 $\frac{1}{3}$. which is the diſtance from B to G, ſo if you draw from that point at G, a line parallel to A C, you have the triangle B F G, which containeth 112. which was required.

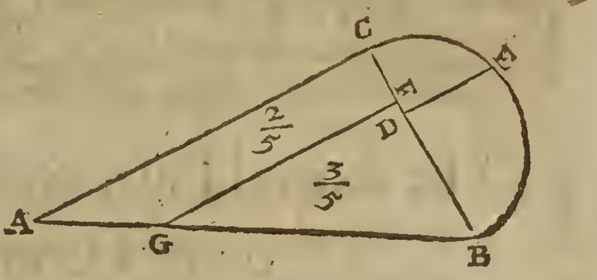
Prob. 59.

To make the parts cut off in a trapezium, if there be a proportion given, betweene the parts to be cut off, and the whole figure.

SVbſtract the leſſer terme given, from the greater, and with the remainder worke as before is taught.

Exam-

Example.



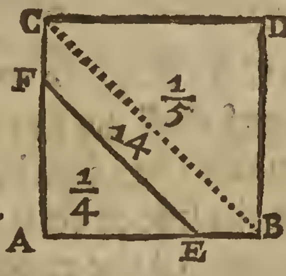
Let the triangle A B C, be given, from whence $\frac{2}{5}$ is to be cut off in a Trapezium: firſt, on C B, deſcribe a ſemicircle, then diuide C B, into five equall parts, and on three of them, from B, erect a perpendicular D E, then ſetting one foot of your Compaſſes in B, extend the other to E, which diſtance ſet off from B, towards C, which endeth in F, by which point draw a line parallel to A C, ſo I conclude the triangle G F B, to containe $\frac{3}{5}$ of the whole, and conſequently the trapezium A C F G, doth containe $\frac{2}{5}$ of the ſame, which was required.

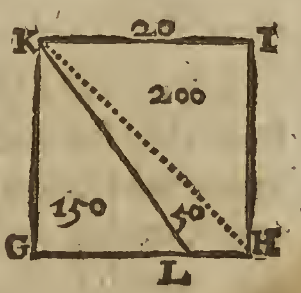
Arithmetically.

Firſt, taking $\frac{2}{5}$ from the whole, the remainder will bee $\frac{3}{5}$ then by the rules afore taught, make the triangle G F B, to containe $\frac{3}{5}$. and then it followeth, that the Trapezium A C F G, muſt containe $\frac{2}{5}$. of the whole triangle, which was required to be done.

Prob. 60:

To cut off from a ſquare any parts aſſigned, and to make theſe parts into a triangle, wherein you muſt note that the parts to be cut off may not exceed $\frac{1}{2}$ the ſquare, for if they be, then the remainder will be a triangle.





TO worke this, firſt draw a Diagonall line to the ſquare, that being done, the ſquare is reduced into two right angled triangles, then may you from either of thoſe triangles, which is aſſigned, cut off any number of meaſures therein contained, by the rules concerning triangles afore going, either with a line iſſuing out of an angle, or with a line parallel to any of the ſides.

Example.

From the ſquare A B C D, let there be cut $\frac{1}{4}$ of his area, with a line parallel to the diagonall; firſt the diagonall B C, is drawne, then muſt you note the $\frac{1}{4}$ of the whole is $\frac{1}{2}$ of the halfe, therefore the proportion ſtandeth thus from the triangle A C B, let there be cut $\frac{1}{2}$ with a line parallell to B C, which is found by the 57 propoſition to bee the triangle A E F, which is $\frac{1}{4}$ of the ſquare A B C D, the thing required; againe, the ſquare G H I K, being found to be 400. I deſire to cut off 150. parts with a line iſſuing out of the angle K, and falling on G H.

The ſecond Part, conſiſting of the menſuration of Geometricall Solids.

Prob. 1.

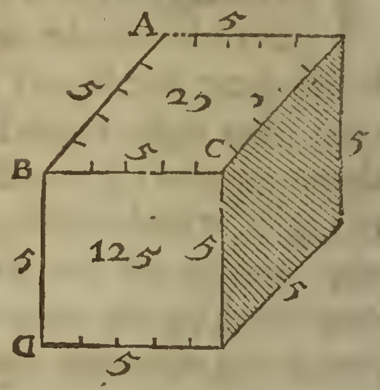
How to meaſure the Soliditie of the Cube.

The cube is a body compriſed of ſixe ſquare ſuperficies being of equall proportion, and is accounted one of the five regular bodies, being named of the Greeks *Exaedron*, and is meaſured in manner following.

Firſt having found the ſuperficiall content of one of the ſquares, by the 49 propoſition of the firſt book, and multiply that ſum by the ſide of the ſquare, and that produceth the cube, otherwiſe multiply the ſide in it ſelfe cubically, and it worketh the ſame effect.

Example.

Let the cube A B C D be given to bee meaſured, the ſides whereof ſhall be five inches, the ſquare whereof is found to be 25 inches, and that againe multiplyed by the ſide or root, produceth 125, which is the content of the cube in inches, which was required.



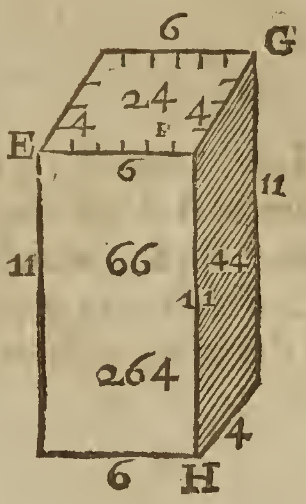
Prob. 2.

How to meaſure the Craſsitude of an Oblonge.

This is performed almoſt with the ſame facilitie as the precedent, for if you multiply any of the ſuperficies terminating the ſame figure, by one of the ſides which falleth on the ſaid ſuperficies at right angles, it giveth the content required.

Example.

Example.



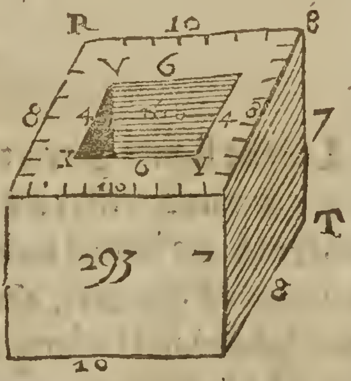
Let the ſolide Oblonge bee E F G H, the ſide of which E F is ſix inches, and the ſides F G is foure inches, which multiplyed together ſa. 24. that multiplyed by the length, which is eleven inches, ſa. 204 for the ſoliditie of that figure.

Prob. 3.

How to meaſure a Rectangular figure being hollow.

THis Figure is meaſured as the former, only the leſſe ſollid muſt be ſubſtracted from the greater, which leaves the right content.

Example.



Let the ſquare which is given be Q R S T, the breadth of Q R being eight foot, and the length R S being ten foot, the heigth ſeven foot, and let the breadth of the intrinſique of the concavitie V X be foure, the length X Y, ſix foot, & of the ſame height with the reſt. Firſt, I meaſure the whole as a ſolid, ſaying, ten by eight makes 80, that againe by ſeven makes 560, afterward I meaſure the concave as a ſolid, ſaying, ſixe by foure is 24, which multiplyed by ſeven, produceth 168, which I ſubſtract out of the whole content, and the remayne is your deſire.

Prob. 4.

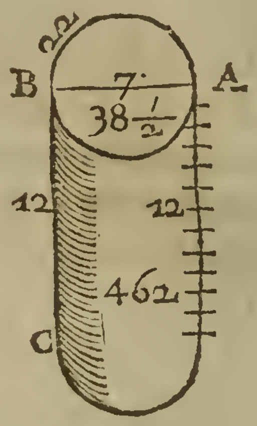
How to find out the Craſsitude or Solid content of a Cillinder.

FIrſt find out the diameter, and by the 23 propoſition of the firſt book find out the ſuperficiall content of the circle, that done, multiply that ſumme by the length, gives your deſire.

Example.

Example.

Let the cillinder given be A B C the diameter whereof A B is ſeven, then is the ſuperficiall content of it $38\frac{1}{2}$, which multiplyed by the length B C which is 12 produceth 462, for the content of the whole cillinder, which was required.



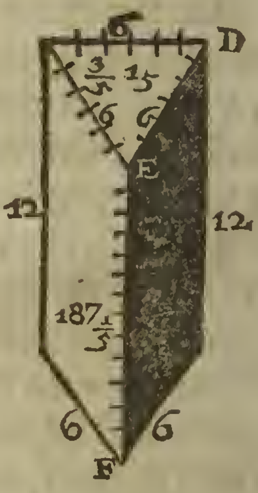
Prob. 5.

How to meaſure the trilaterall figure called the Priſma.

THe Priſma is terminated with two equall and equilaterall Triangles which being meaſured by the 21 Propoſition of the firſt booke, and that ſumme multiplyed in the length, giveth the ſoliditie of the ſame.

Example.

Let the figure given to be meaſured be D E F, which is terminated with two equilaterall Triangles, the ſides whereof are found to be ſix inches, and by the 21 Propoſition of the firſt, the ſuperficies will be $15\frac{3}{5}$, which multiplyed in the length E F, which is 12 fa. $187\frac{1}{5}$ for the whole content.

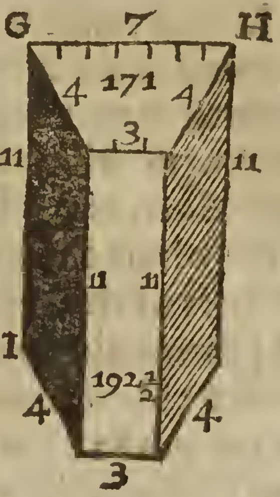


Prob. 6.

How to find the ſolid content of a Priſma Trapezium.

THis figure is terminated with two equall Trapezians, ſo that finding the content of the Trapezium by the 33 Propoſition of the firſt booke, and multiplying that ſumme by the length, gives the ſoliditie of the whole.

Example.



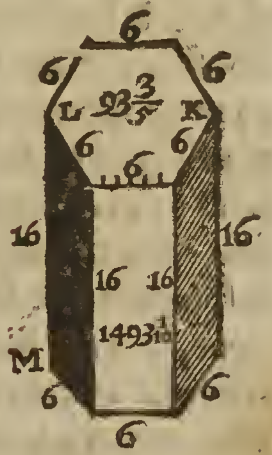
Let the Preſma Trapezium given be G H I, the baſes of which are two Trapeziums, equall to each other, the ſides equall are foure, the leſſer ſide three, and the greater ſeven, and the height thereof is 11, the ſuperficies given of the Trapezium will bee found by the 33 of the firſt to be 17 $\frac{1}{2}$, which multiplyed in the length which is 11 fa. 192 $\frac{1}{2}$ for the ſolid content which was required.

Prob. 7.

To find out the Craſsitude or ſolid content of an Exagonall figure.

As in the reſt ſo in this you muſt firſt find out the ſuperficiall content of the Exagon, comprehending the figure, which multiplyed in the length giveth the ſoliditie.

Example.



Let the Figure given bee K L M, the height whereof ſhall be 16 foot, and the ſides of the Exagon ſhall be ſix foot, then will the ſuperficies of this Exagon, bee found by the 34 of the firſt to bee 93 $\frac{3}{5}$, which multiplyed in the length which is 16 fa. 1497 $\frac{3}{5}$ for the ſolid content of the Hexagon which was required.

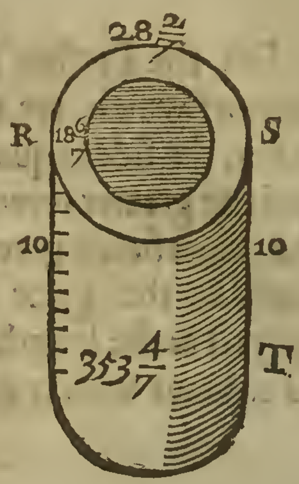
Prob. 8.

How to meaſure the ſolid content of a concave Cillinder.

First meaſure the whole as a ſolid Cillinder, by the fourth propoſition of this booke, likewiſe meaſure the concave as a ſolid, which ſubſtract from the whole, leaves the content required.

Example

Example.



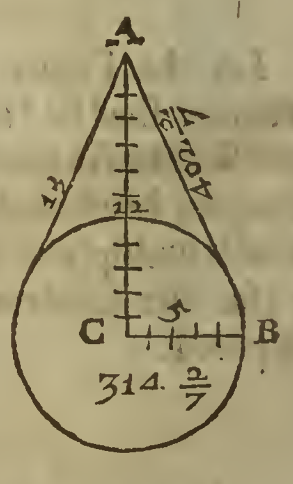
Let the concave Cillinder given bee R S T, the diameter of the exteriour being nine inches, and the diameter of the interiour or concave ſhalbe ſix inches, the length whereof ſhall bee ten inches, by the 23 propoſition of the firſt booke the ſuperficiall content of the whole circle will bee found $63\,\frac{9}{14}$, and the ſuperficies of the concave or leſſer circle will be found $28\frac{2}{7}$, then multiply the greater $63\,\frac{9}{14}$ by ten the length fa. $636\frac{3}{7}$ likewiſe multiply $28\frac{2}{7}$, the leſſer ſuperficies by ten fa. $282\frac{6}{7}$, which ſubſtracted from the whole $636\frac{3}{7}$ reſts $353\frac{4}{7}$, which is the ſolid content orbicular of the concave cillinder required, and after this manner may you meaſure any of the aforegoing Figures being concavous, or hollow.

Prob. 9.

How to find the ſolid content of a Cone.

THis is done by multiplying the ſuperficies of the baſe by the third part of the height of the Cone, for every Cone is $\frac{1}{3}$ of a cillinder, conſiſting on the ſame baſe, and being of equal height.

Example.



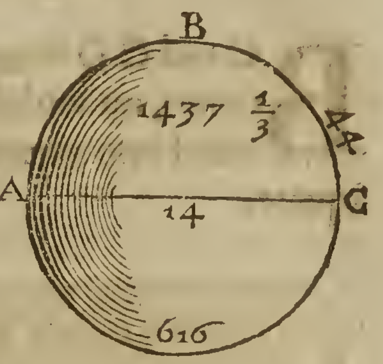
Let the cone given be A B C, the height whereof A C is twelve, and the diameter of the baſe being ten, firſt the ſuperficies of the baſe is found, by the 23 propoſition of the firſt to be made $78\frac{8}{14}$, which multiplyed by foure, the third part of the perpendicular fa. $314\frac{2}{7}$ for the ſolid content. Now it reſteth to find the perpendicular, which is after this manner, firſt ſquare the ſide of the cone which is here thirteene, fa. 169, likewiſe ſquare $\frac{1}{2}$ the diameter, which is five fa. 25, then ſubſtract the leſſer ſquare from the greater, fa. 144, whoſe ſquare Root being extracted is twelve, the length of the perpendicular required, and after this manner are all pyramidall Figures meaſured.

Prob. 10.

To find the Craſsitude or ſolid content of a Spheare.

THis is done by cubing the diameter, which multiplyed by eleven, and divided by 21, gives the ſolid content, for every cube is in proportion to his Spheare, as 21 to eleven, every globe is to his cube as eleven to 21.

Example.



There is a globe whoſe diameter is fourteene inches, and I deſire to finde the craſſitude of it, Firſt I cube fourteen ſa: 2744, which I multiply by eleven ſa. 30184, that divided by twenty one, is 1437 $\frac{2}{3}$ the ſoliditie required, to finde the ſuperficiall content of any Spheare is only multiplying the diameter by the circumference in this example, the diameter being fourteene, the circumference is forty foure, which multiplyed in each other, produce 616 the ſuperficiall content of the Spheare required.

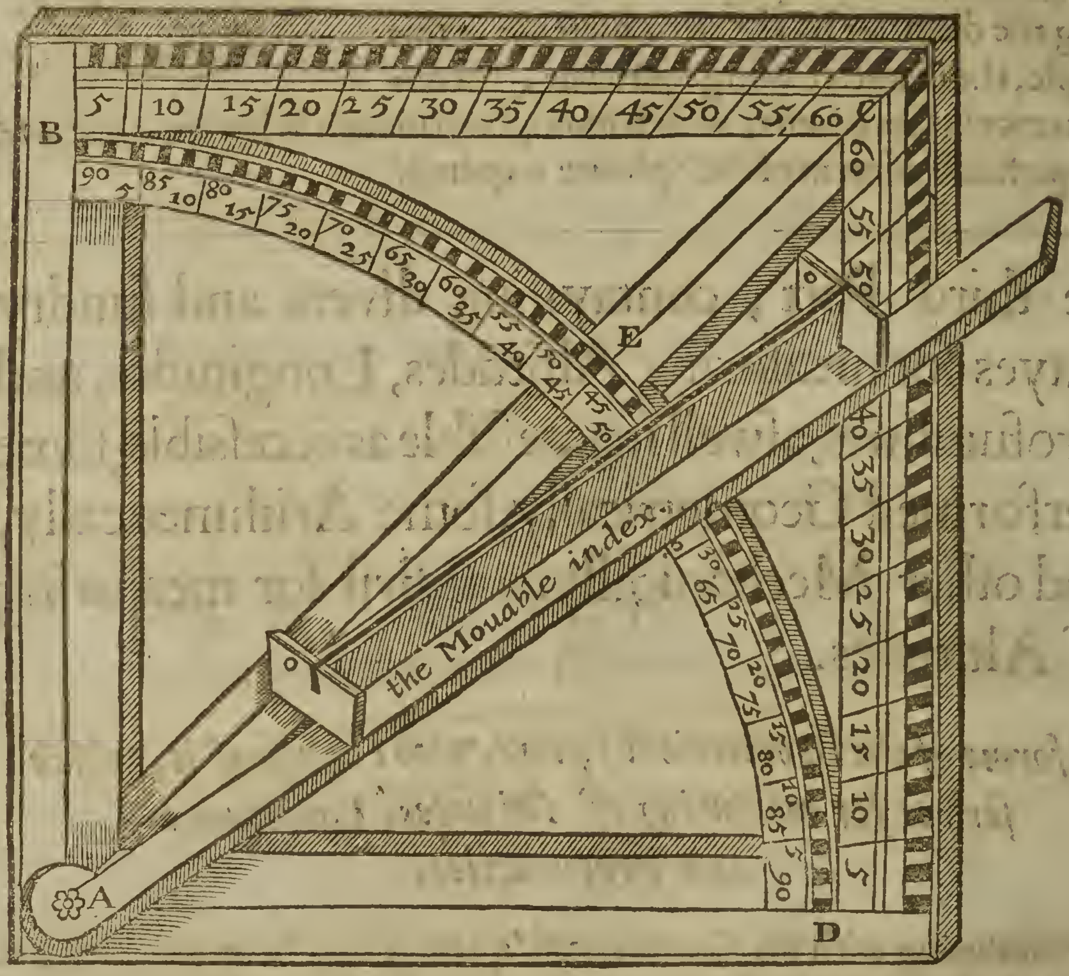
The third Part, contayning divers and ſundry wayes for meaſuring Altitudes, Longitudes, and Profundities, aſwell inacceſsible as acceſsible; ſome performed Geometrically, ſome Arithmetically, and other Mechanically, and firſt for meaſuring of Altitudes.

The forme of the Geometricall ſquare, with the uſe of it, which ſerves for meaſuring of Altitudes, Longitudes and Profundities.

IN meaſuring with the Geometricall ſquare it is to be noted, that one ſide of the ſquare muſt alwayes ſtand parallel to the Horizon, and likewiſe your eye muſt come cloſe to the centre, on which the Index playeth, if you meaſure with a moveable Index, but if you meaſure with a Thred and Plummet which will alwayes hang perpendicular to the Horizon, then it will be contrary; but I approove of the Geometricall Square, with the Index before the Quadrant, with a plummet, eſpecially for theſe reaſons, firſt, becauſe the Square may be ſet on any Horizontall plane, where the other cannot, and ſecondly, becauſe the holding of the Quadrant cannot be ſo ſteady but it will cauſe ſome errour, and the third reaſon is in regard that this may be uſed as a Quadrant at pleaſure, and laſtly this may be uſed flat when that with a plummet and thred cannot, wherefore I approve this as the beſt: For the grounds of this inſtrument it is taken from the fourth propoſition of the ſixth booke of *Euclide*, where he ſayes, that of equiangled Triangles, the ſides which are about the angles are proportionall, wherefore I will not ſtand upon that, only I will lay downe the forme of the inſtrument in the Diagram or Figure following, and then will come to ſhew the uſe or application of it.

The forme of the Geometricall Square.

BC and C D being divided each into ſixtie equall parts. A being the centre, on which the moveable index playeth. B D a Quadrant divided into ninetie degrees and minutes, which is placed within the Square.

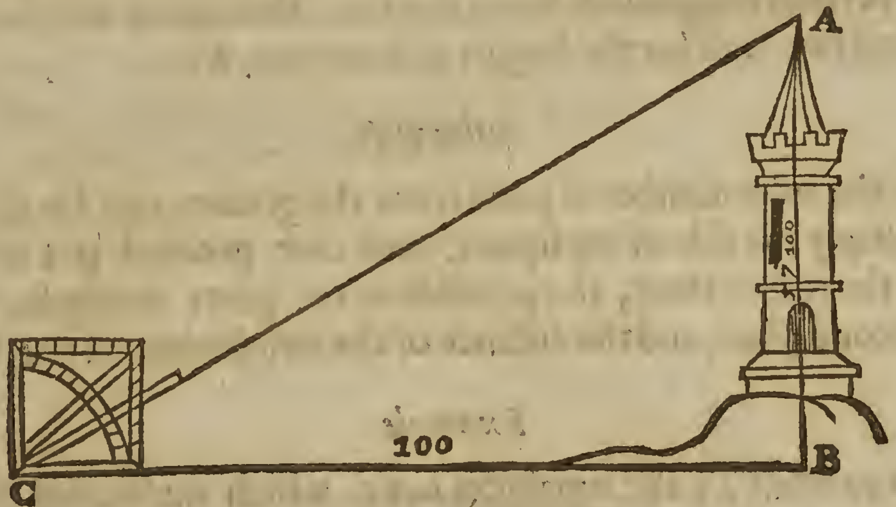


The uſe of the Geometritall ſquare in finding the height of a Towre or Caſtle which is acceſsible.

FIrſt holding one ſide of your ſquare parallel to the Horizon, with the centre next to your eye, move the index upward, till through the ſights thereof you perceive the top of the Towre or Caſtle, then looke what parts is cut by the index, and what proportion that hath to the Horizontall ſide, ſuch proportion is there betweene the baſe and altitude required.

Example.

Let there be a tower, whoſe height is required, which ſhall bee A B, and the diſtance from the baſe to my ſtation, B C, being 100 yards: to worke this, I place my inſtrument, with the ſide whereon the index lyeth, parallel to the horizon, moving the index upward, till it cut in 40 parts of verſed ſhadow, that being done, I ſay as 60 the whole ſide is unto 40. the parts cut, ſo is 100 yards, the diſtance B C, to $66\frac{2}{3}$. which is the height required, namely A B, but if it fall in 40 parts of right ſhadow, then I ſay as 40 the ſide cut is unto 60 the whole ſide, ſo is the diſtance D B, 44. to the height A B, $66\frac{2}{3}$ the thing required.

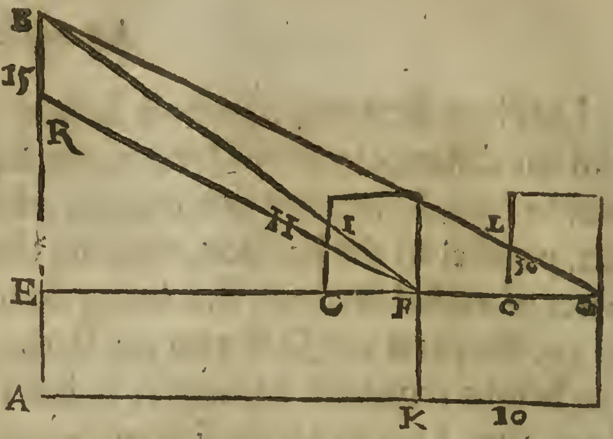


By the Geometricall ſquare to finde the height of any Tower being inacceſſible.

IF you would take the altitude of any Tower, Wall, or other edifice which is unapproachable, either in regard of the enemy lying betweene, or by the hinderance of ſome River or Ditch, you ſhall proceed as followeth. Firſt, approach to the neareſt and moſt convenient place for your purpoſe, where placing your inſtrument, and obſerving the parts cut in your ſquare, you muſt then goe backward in a ſtrait line, according to the commodiouſneſſe of the place, and make a ſecond obſervation, noting likewiſe the parts cut in your ſquare, which will be either on the right or verſed ſhadow: if they fall both on the verſed ſhadow, (which moſt often doth happen, in regard of many impeachments) you ſhall divide the ſide of the ſquare ſeverally by the parts cut, and ſubſtract the leſſer quotient from the greater, and by the remainder, divide the terreſtriall difference betweene the two ſtations, to that adde the height of your eye from the horizon, you have your deſire.

Example.

Let the height be A B, which cannot be approached in regard of ſome river; firſt I make choice of a place to ſet my inſtrument, which is H, then raiſing the index untill I ſee the top of the tower thorow my ſights, I note the parts cut, which is 45 of verſed ſhadow, then falling backe in



a ſtraight line, I make choice of another ſtation which is ten yards diſtant from the firſt, and obſerving there I finde my index to cut in 30. which being done, I divide the whole ſide of the ſquare, which is 60. by theſe two ſums ſeverally, and I finde the one to be $1\frac{1}{3}$. and the other 2. ſo that taking the leſſe from the greater, the remainder is $\frac{2}{3}$. by which number I divide the terreſtiall difference of my ſtations, which is 10. and the quotient is 15. to which adding the height of my eye from the ground, being fiue foot, the whole will bee ſixteene yards and two foot for the height of the tower, A B.

Otherwiſe.

Take the leſſer number of parts from the greater, and by the remainder, multiply the ſide of the ſquare, and that product put in the firſt place in the rule of three, the product of the parts multiplied together in the ſecond place, and the diſtance of the two ſtations in the third.

Example.

Take 30 from 45. the remainder is 15: which multiplied by the ſide of the ſquare, which is 60. fa. 900. which product put in the firſt place, then multiply the parts together, which is 44 and 30. fa. 1350. for the ſecond, and the diſtance of the two ſtations, which is tenne yards for the third, ſo the rule ſtandeth thus:

As 900 is to 1350. ſo is 10 to 15.

10

135(00

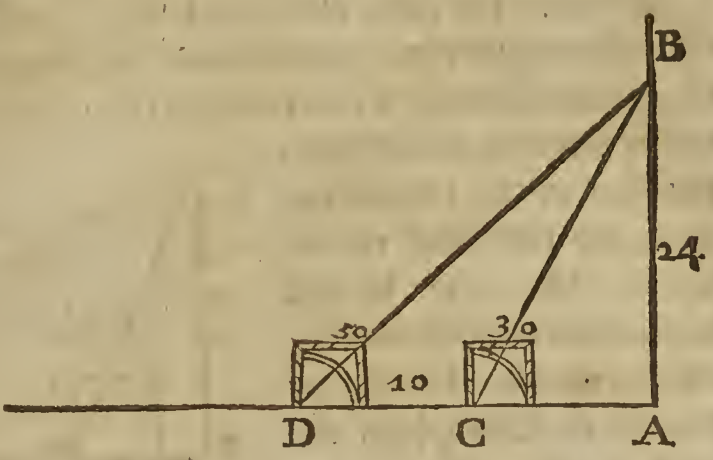
4
$\cancel{1}\cancel{3}\cancel{5}$(15
$\cancel{9}\cancel{9}$

So that the quotient being 15. anſwereth the demand, and is the height of the tower A B, which was required.

How to performe the ſame, when the parts cut fall on the right ſhadow.

If the parts cut in each ſtation bee of right ſhadow, which is very ſeldome, ſubſtract the leſſer number of thoſe from the greater, and put that in the firſt place in the rule of three, that ſide of the ſquare in the ſecond, and the ſtationarie diſtance in the third. Example.

Example.



Let A B, be the height required, and let the parts cut be 30 and 55. of right ſhadow, ſubſtract the leſſer from the greater, the remainder is 25. which ſhall be put in the firſt place in the rule of three, the ſide of the ſquare being 60. in the ſecond, and the diſtance betweene the two ſtations which is 10. ſhall bee the third, ſo the rule ſtandeth thus; as the difference of parts cut is to the whole ſide, ſo is the difference of ſtations to the height required, or thus,

As 25 to 60. ſo 10 to 24.

~~10~~ 10
~~0~~ ———
~~600~~ (24 600
~~255~~
~~2~~

How to take an altitude by the ſquare, when the parts cut are of different ſhadowes.

IF the parts cut in the neareſt ſtation, be of right ſhadow, and the fartheſt be of contrary ſhadow, they ſhall be both reduced to one ſhadow, after this manner ſquare the whole ſide, which is 60. and deuide that product by the parts, cut off the verſed ſhadow, and the quotient ſhall give the right ſhadow, that being done, ſubſtract the leſſer ſhadow from the greater, and the remainder ſhall be the firſt place in the rule of three, the diſtance betweene the two ſtations ſhall be the ſecond, and the ſide of the ſquare the third.

Example.

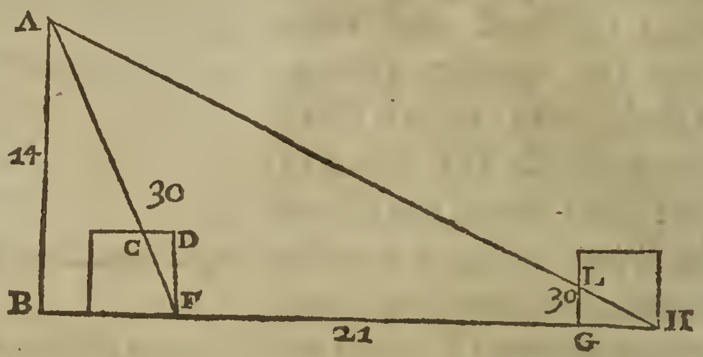
Let the parts of right and verſed ſhadow be both 30. and I deſire to bring them to be both right; firſt I ſquare the whole ſide, which here is 60. fa. 3600. that product I devide by the parts cut of verſed ſhadow, which is 30. the quotient is 120. from which ſubſtracting 30. the leſſer right ſhadow, the remainder is 90. for my firſt terme, the diſtance betweene my two ſtations being 21. is the ſecond terme, and the ſide of the ſquare the third, for the rule ſtandeth thus,

As 90 is to 21. ſo is 60 to 14.

60
~~30~~ ———
~~126~~ (14 1260
~~99~~

Otherwiſe without reducing one ſhadow to another.

MVltiply the parts cut in each other, and ſubſtract the product from the number gathered by multiplication of the ſide in it ſelfe, putting the remainder for the firſt terme in the rule of three, the product of the multiplication of the parts touched in the verſed ſhadow, by the ſide of the ſquare for the ſecond terme, and the diſtance betweene the two ſtations for the third. Example of the former, where the parts cut of right ſhadow, are 30. and the fartheſt diſtant as much of verſed ſhadow; the difference betweene the two ſtations being 21. multiply the parts cut in themſelves, ſa. 900. ſubſtract that product from the ſquare of the whole ſide, which is 3600 the remainder will be 2700. which ſhal be put in the firſt place in the rule of three; the product of the multiplication of the parts, cut of the verſed ſhadow by the ſide of the ſquare which is 1800. ſhall be put in the ſecond place, and the diſtance between the two ſtations being 21. ſhall be the third place, the rule ſtandeth thus,



As 2700 is to 1800 ſo is 21 to 14.

21

1800
3600

37800

$\cancel{1}$
$\cancel{0}$
$\cancel{3}\cancel{7}8\cancel{0}\cancel{0}$ (14
$\cancel{2}\cancel{7}7\cancel{0}\cancel{0}$
$\cancel{2}$

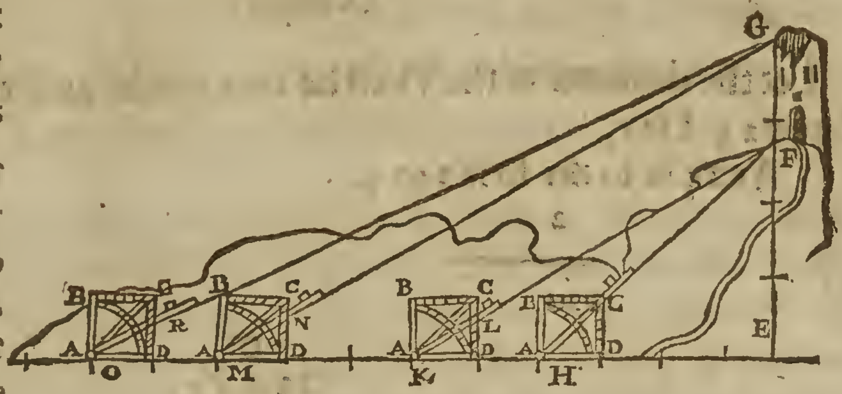
To take the height of a Tower or Caſtle, ſtanding on a hill.

TO performe this, you muſt firſt take the height of the hill, at two ſtations, as a thing inacceſſible, & after the ſame manner take the height of the tower and the hill together, which being done, ſubſtract the height of the hill from the whole, the remainder will bee the height of the tower.

Example.

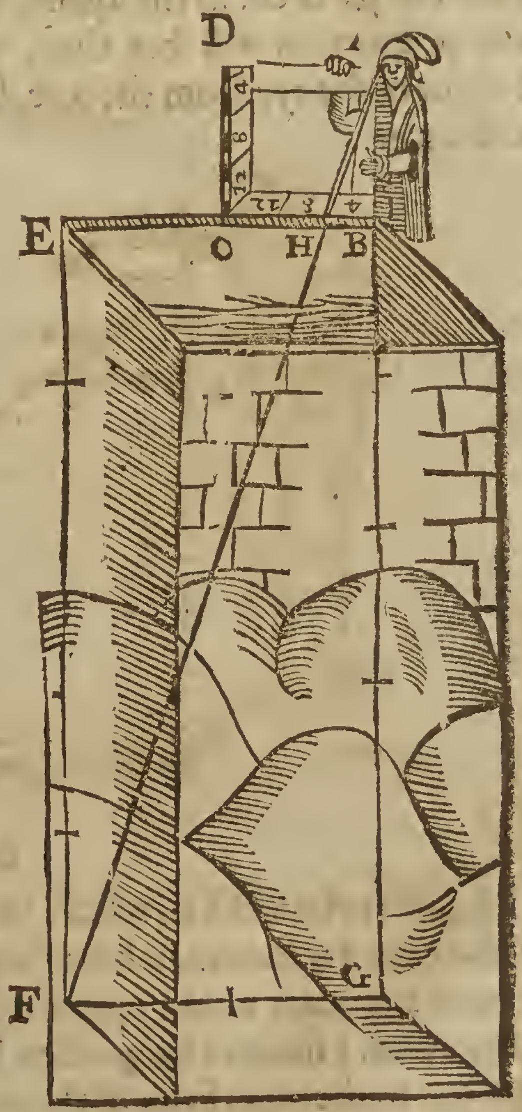
Let there be the hill E F, on the top of which is erected the Tower F G, firſt placing your inſtrument at H, obſerve the altitude of the hill F, and note the parts cut in the ſquare, which are 60. that done, goe backe to the point K, and there make another obſervation, which is found to be 40. that being done, divide the ſide of the ſquare by the parts cut ſeverally, and ſubſtract the leſſer quotient from the greater, and by that which reſts which is $\frac{1}{2}$, devide the ſtationary diſtance, which is, 20 yards, the quotient will be 40 yards, for the height of the hill E F. Now ſeeing K H, to F E, is in proportion as $\frac{1}{2}$ to 1. in doubling the one and the other, the proportion ſhall be as 1 to 2. by the fifteenth proportion of the fifth of *Euclide*, ſo that K H, being 20 F E, ſhall be 40.

And



And conſequently to have the height E G, you muſt follow the precedent rules by taking two obſervations, the firſt being at the point M, the ſecond at O, which parts cut, are 36 and 30. devide them ſeverally as before, the ſide of the ſquare, by the ſaid parts, and ſubſtract the leſſer quotient from the greater, and by that which remaines, which is $\frac{1}{3}$ devide the ſtationarie diſtance O M, which is eighteene yards, and you ſhall have for the quotient, fifty foure yards, the height E G, from which ſubſtracting the height of the hill E F, which is forty, the remainder will be fourteene yards, the height of the tower, F G, which was required.

How to meaſure all ſorts of profundities by the ſaid ſquare.



IN meaſuring all ſorts of profundities, the ſquare muſt be placed contrary to the aforeſaid order uſed in taking of altitudes, that is the ſide devided in the ſquare, muſt be turned downwards, whereas before it was upermoſt, to take the profundity or depth of a Well, place your ſquare on the top, ſo that it may ſtand horizontall, and likewiſe that ſide next your eye may bee equall with the ſide of the Orifice of the Well, then move the index, till through the ſights you ſee the bottome of the Well on the oppoſite ſide to your ſquare, that done, obſerve the parts cut in the ſquare, which will be of right ſhadow, and the rule will ſtand thus: as the parts cut are to the whole ſide, ſo is the diameter of the Orifice to the depth of the Well.

Example.

Let the diameter of the Well be two yards, and the parts cut being found 24. I ſay,

As 24 is to 60. ſo is 2 to 5.

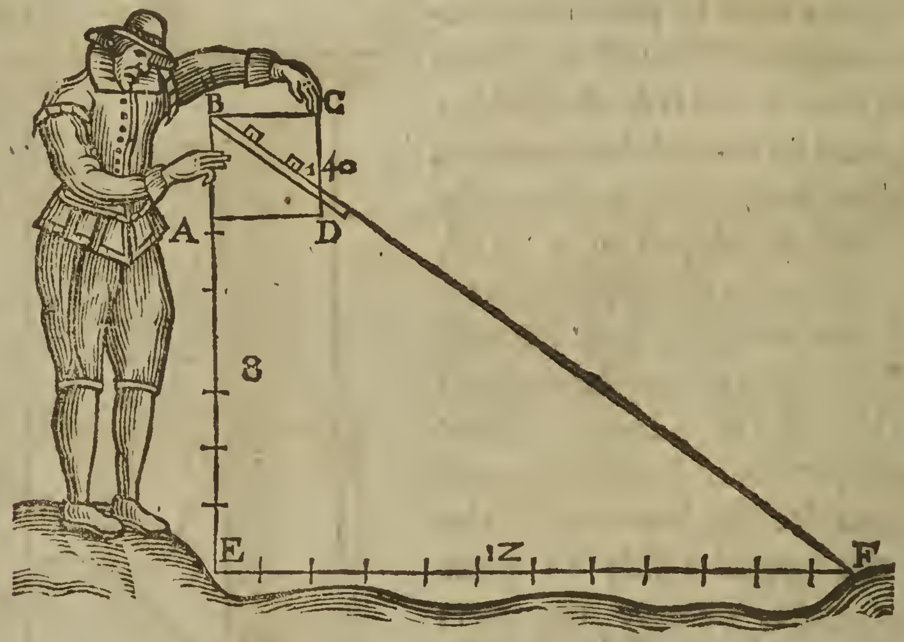
$$\begin{array}{c} 2 \\ \hline 120 \end{array}$$

$$\begin{array}{l} \quad\cancel{0} \\ \cancel{1}\cancel{2}\cancel{0}\ (5 \\ \quad\cancel{2}\cancel{4} \end{array}$$

So the depth found, will be five yards which was required.

How to take a diſtance by the ſaid ſquare.

IN this caſe the ſquare muſt be held as in the foregoing chapter of taking a profunditude; but note, that this ſerues but for a ſhort diſtance, wherefore place your inſtrument as high as you can from the horizontall line of your baſe to be meaſured; that being done, move your index till you ſee the extreame part of the horizontall diſtance at the baſe, and note the parts cut in the ſquare, which will be in the verſed ſhadow, then the proportion will bee thus, as the parts cut is to the perpendicular height of the eye from the baſe, ſo is the whole ſide of the ſquare to the diſtance



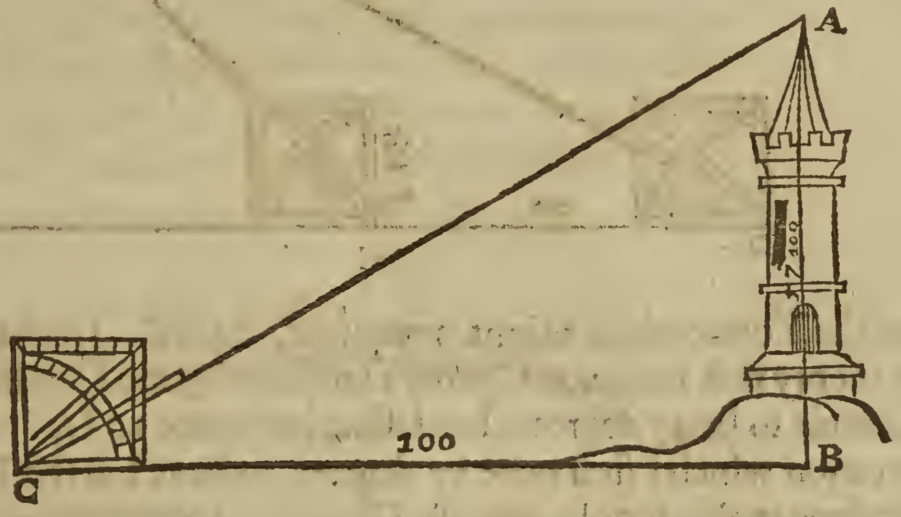
Example.

Let there be a River, whoſe bredth I deſire to know, I make choice of a place for my ſtation, where ſtanding on a banke, I obſerve the ſuperficies of the water on the oppoſite ſide of the River, and note what parts is cut, which I finde to be 40. then I meaſure the perpendicular height from my eye to the ſuperficies of the water, and I finde it to be eight foot, ſo I ſay as 40 is to 60. ſo is 8 to 12. which is the bredth of the River required.

How to performe the ſame by the Quadrant, which is wrought by the ſquare, and firſt for taking the altitude of a Towre having the diſtance given.

IN meaſuring by the Quadrant placed on your ſquare, you are to hold it in all reſpects, as you held it meaſuring with the ſquare, ſo that having made choice of a ſtation, place your inſtrument, as I have ſhewed you for taking an altitude; moving the index till you ſee the top of that you deſire to meaſure; then obſerve the degrees cut in the Quadrant, which being found, the Rule ſtands thus. As ſine complement of the altitude is to the diſtance, ſo is the right ſine to the altitude required.

Example.



Let there be a Towre whoſe height is required, namely A B, and the diſtance given B C being a 100 yards, I make my ſtation at C, obſerving with my Quadrant the degrees of altitude, which I finde to be thirty degrees, whoſe complement to ninety, or Radius is ſixty degrees, then I ſay thus:

As Sine complement the altitude which is|60 deg. Co. Ar.,0624694
is to the ſide given, which is 100——2,0000000
So is the right Sine 30 degrees, 9,6989700
to $57\frac{37}{100}$ 1,7614394
the height required namely A B.

To find the Altitude of a Towre or Caſtle being inacceſsible, by the Quadrant.

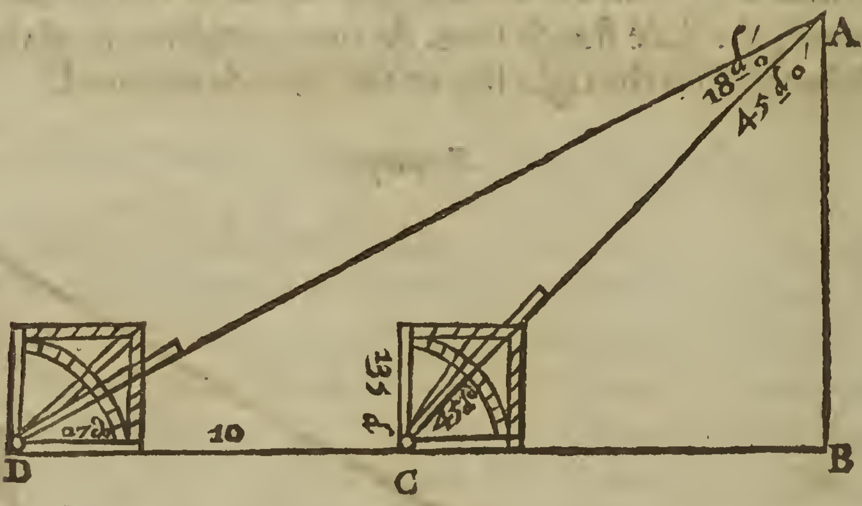
HAving made choice of a place for your firſt ſtation, obſerve the degrees of altitude cut in the Quadrant, then going backe ten paces or yards make another obſervation, and note the degrees cut, that being done you have a Triangle, in which is given the angles

angles with one ſide which is the ſtationarie diſtance, then the Rule ſtands thus:

As the Sine of the angle oppoſite to the ſtationary diſtance is to the ſaid diſtance, ſo is the angle laſt obſerved to the Hepothenuſall in the firſt Triangle, which being found, the ſecond worke will be thus.

As Radius or the whole Sine being 90 degrees, is to the Hepothenuſall, ſo is the Sine of the firſt obſervation to the altitude required.

Example.



Let the Towre whoſe height is required, be A B, I make choice of a place for my firſt ſtation at C where I obſerve by my Quadrant, and find the altitude to be 45 degrees, then falling backward to D, I make another obſervation which I find to be 27 degrees, ſo have I in the Triangle A D C the three angles, the obtuſe angle C being the complement of 45 to 180 which is 135 degrees, which added to 27 degrees fa. 162 that ſubſtracted from 180 gives 18 for the angle D A C, which being done,

I ſay as Si 18 degrees, 0 com. ar.————0,5100176
to 10 pa.————————1,0000000
ſo is Si. 27 degrees 0 ————9,6570468

to $14\frac{69}{100}$——The Hipothenuſall A C——1-1670644

The ſecond operation.

As Radius Si. 90,————————
To A C $14\frac{69}{100}$ ————1,1670644
So is Si——45 degrees, ———9,8494850

To $10\frac{39}{100}$ *fere* ————1,0165494
which is the height of the Tower A B.

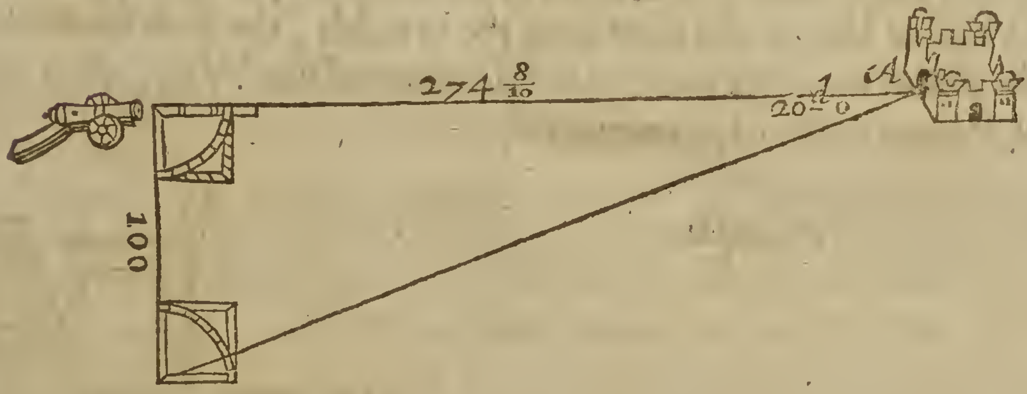
To find the Longitude or diſtance of any place inacceſsible, by the Quadrant.

SVppoſe a Caſtle placed at A, whoſe diſtance I deſire to know in regard of placing my Ordnance, to make a batterie againſt the ſame, Firſt I make choice of a convenient place for my ſtation, which is B, where placing

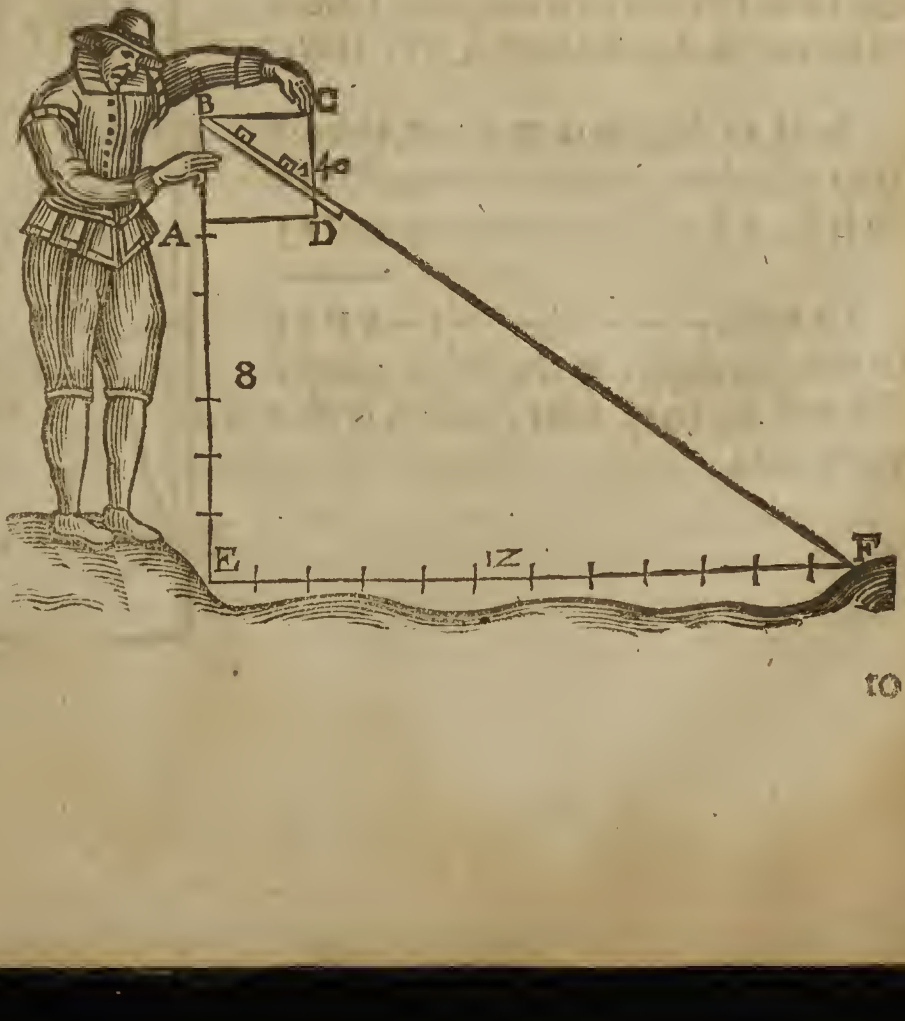
placing my inſtrument I bring the index to the edge or no degree in the Quadrant, and ſetting it to ſome noted place which is the point A, then I move about the index my inſtrument ſtanding quiet till I bring it to the extreame part of the Quadrant, that done, I obſerve the line B C in which I meaſure out a hundred yards or at pleaſure, then bringing my inſtrument to the point C, I make that my ſecond ſtation, where I place my inſtrument, in ſuch manner that the edge (where the diviſion beginnes to be numbred, may be parallel to the line B C, turning about the index untill I ſee the point A thorow the ſight, that done, I obſerve the degrees cut in the Quadrant, and finde them to be ſeventy degrees, no minute, which I note, and ſay thus:

As ſine complement B C A ſeventy degrees no minute, is to B C a hundred yards, ſo is Si. ſeventy degrees to B A, the diſtance required:

As Si 20 degrees 0. Co. Ar.	0,4659480
is to 100 yards	2,0000000
ſo is Si. 70 degrees 0	9,9729858
to A B 274 $\frac{8}{10}$	2,43889338



To meaſure a diſtance at one ſtation in a Horizontall plane, by the Quadrant.



SVppoſe a Caſtle ſtanding at F whoſe diſtance I deſire to know, Firſt, I make choice of a place for my ſtation at E, where placing my inſtrument as high as I can, I make obſervation to that part of the Caſtle which is equall

to

to the baſe of my ſtation, which I finde to be ten degrees, no minute, vnder the Horizontall line, and the height of my eye from the ground to be eight foot, the Rule ſtands thus.

As ſine complement the angle taken is to the perpendicular height of my eye from the baſe, ſo is ſine 80 degrees 0 to the diſtance which is 45 $\frac{37}{100}$.

As Si. Ⓒ A B 10 Co. Ar.——,76032
Is to 8————————,90309
So is Si. 80 degrees 0 ———9,99335

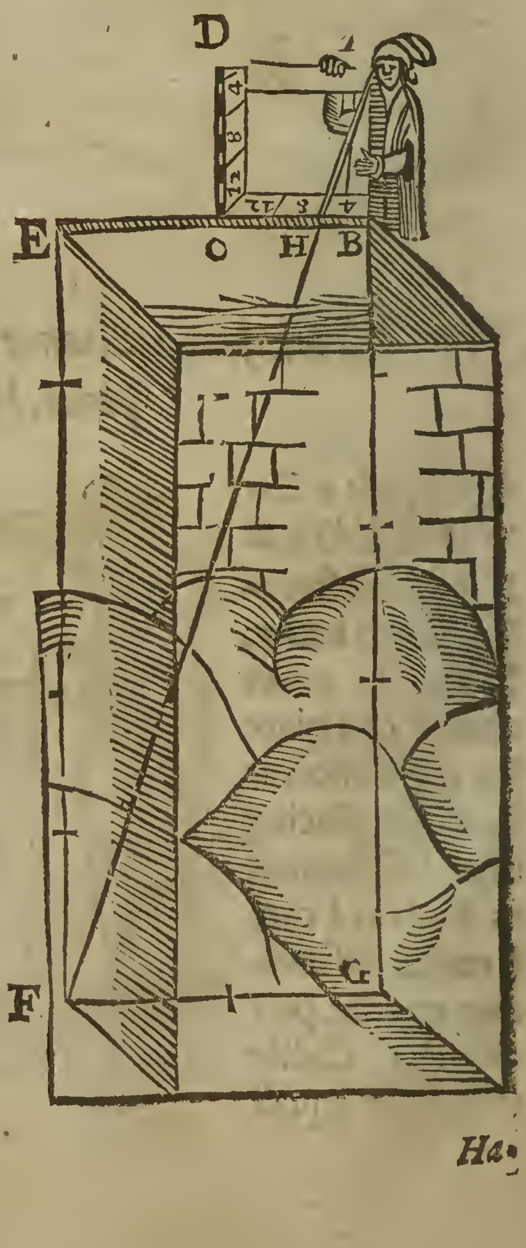
to 45 $\frac{27}{100}$—————————1,65676

So that the diſtance of the Towre A B is 47 $\frac{38}{100}$ feet which was required.

To find the Profunditie of any Well or Ditch by the Quadrant.

THis is wrought after the ſame manner as the aforegoing propoſition, by placing your inſtrument, on the top of the Well, and obſerving the angle cut, from the ſuperficies to the bottome, in the oppoſite ſide of the Well or Ditch, and meaſuring the breadth, the Rule ſtandeth thus, as the ſine of the angle cut is to the diameter of the Well, ſo is the ſine complement to the depth required.

Example.



Let the Well whoſe depth I deſire to know, be E B G F, whoſe diameter E B is two yards or ſix foot, and obſerving by my Quadrant, I find the angle cut to be twentie two degrees, I deſire to know the depth namely, E F, I ſay.

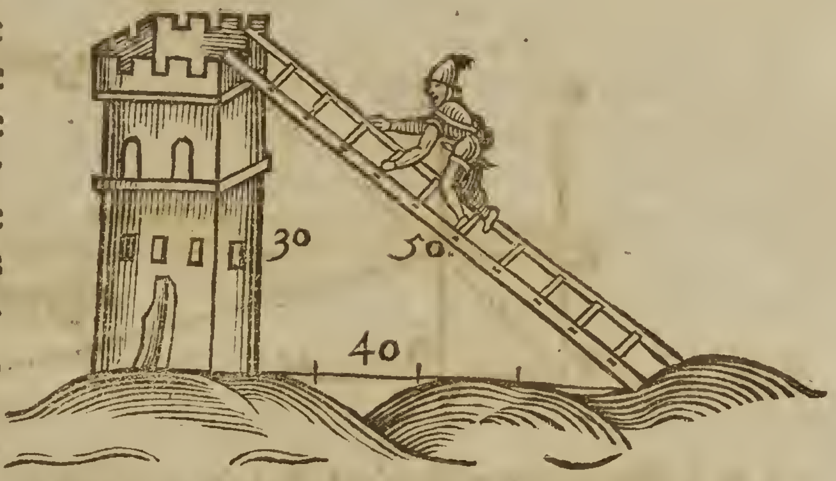
As Si. 22 degrees 0 co.ar.--0,4264.2
Is to 6 foot————————9,77815
So is Si. 78————————9,96713

To 14 $\frac{85}{000}$——————1—17173
ſo that the depth of the Well namely E F will be 14 $\frac{32}{100}$ foot, which is five yards *fere*.

Having the heighth and diſtance given to find the Diagonall, or length of a ſcaling Ladder.

HAving ſound the ſides by the precedent Rules, ſquare each ſide ſeverally, then adde thoſe too products, and from that ſumme extract the ſquare Root, which ſhall be the Diagonall required.

Example.



Let the height of the Towre A B bee thirtie foot, and the diſtance from the baſe of the Tower to my ſtation B C ſhall bee fortie, theſe two ſums ſeverally ſquared produce 900 and 1600, which being added, fa, 2500 whoſe ſquare Root being extracted is fiftie, the length of the Diagonall or ſcaling Ladder for that place which is the ſide A C.

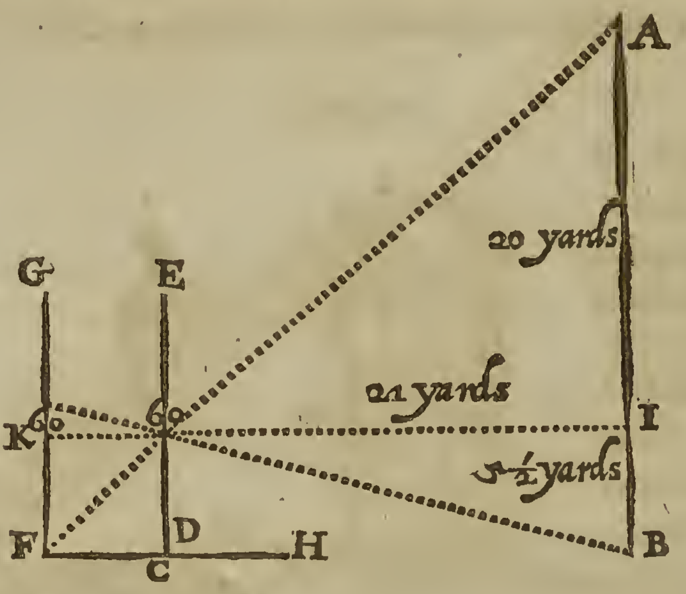
Divers wayes for taking Altitudes and diſtances, performed by the plaine table, and firſt to find the Altitude by the Ruler on the plaine table.

THe Rulers whereby all concluſions on this inſtrument are performed are divers, ſome uſing them with ſtanding ſights, others with a ſemicircle, and ſome with a channell or cover cloſe to the edge, covered with a thin plate or board, but the laſt moſt commonly received is that which I mean heere to ſpeake of. Firſt having got the Horizontall diſtance to the baſe. Then the one ſide of the Ruler ſtanding upon the beginning of the diviſions, place the other ſight on ſo many diviſions as are the diſtance to the baſe, that done, place the table parallel to the Horizon, which is done by a plummet placed on the ſide of the Ruler, and having ſet the Ruler on the Table, and ſet the Vane on the further ſight at ſome even meaſures, ſomething neere the vpper end, note the parts whereon it ſtandeth, then bring downe the neerer ſight to you, till through the hole thereof, and the pins head of the farther vane, you ſee the top of the altitude, and there note the parts cut by the edge of that vane, which parts taken from thoſe whereon the farther vane ſtandeth, leaveth a number which ſhall be equall to the height required above the levell of your eye, then remove the neerer vane up againe, till thorow the hole thereof and the pins head on the farther vane, you ſee the baſe of the altitude, and note theſe parts cut for the parts whereon the farther vane ſtandeth taken out

of

of the parts cut, ſhall be equall to that part of the altitude below the levell of your eye, which added to the former ſhall make the whole altitude required.

Example.



Let A B be an altitude whoſe height is required, let C be the place of ſtation, whoſe Horizontall diſtance being found twenty one yards; Suppoſe F H to be the Ruler placed on the plane Table, whoſe neerer ſight placed on the beginning of the diviſiõs is F G, then the farther ſight being D E, which is placed at ſo many diviſions, as is the Horizontall diſtance which is heere twenty one yards, then let the farther vane be ſet on ſixty equall parts of the ſight, ſo doth K L I repreſent the line of levell; then let the neerer vane bee brought downe till through the ſight thereof, and the point L, you ſee the top of the altitude A, then ſuppoſe the parts cut to bee forty, which taken out of ſixty leaveth twenty, for that part of the altitude from I to A, then bring up the neerer vane, till through the ſight thereof, and the point L you ſee the baſe of the altitude B ſuppoſing thoſe parts cut to bee $65\frac{1}{2}$, from whence taking ſixty leaveth $5\frac{1}{2}$ for the number of yards from I to B, which $5\frac{1}{2}$ added to the height of I A being twenty fa. $25\frac{1}{2}$ for the whole altitude required, the which is thus demonſtrately proved. Firſt, the angle L F K is equall to the angle L A I by the fifteenth Propoſition of the firſt of *Euclide.* All perpendiculars ſtanding or falling upon, or from one line are parallel, therefore the line K F is parallel to the line I A, and therefore proportionall thereunto, by the ſecond demonſtration of the eleventh propoſition of the ſixth of *Euclide*, in like manner might the ſecond part of the Work be demonſtrated, but that to the ingenious a word doth ſuffice, and in this manner you may take any altitude or part thereof, or any depth, whereof might be ſet downe divers Propoſitions, though all are to be performed, as is before taught by this Propoſition, wherefore I will not trouble you with prolixitie, only I will ſhew you in the next the uſe of the degree ſet on the Ruler.

To take an angle of altitude by the degrees ſet on the Ruler.

FIrſt having placed the table parallel to the horizon, by the former propoſition, then ſet the ſight next your eye on 90 degrees, and the other from your eye on 45 degrees, and ſet the farther vane on the beginning of degrees: then is there double regard to bee had, viz whether the quantity of the angle be leſſe or more then 45 degrees, if leſſe, bring downe the Vane on the neerer ſight, till through the hole thereof, and the pinnes head of the farther Vane, you ſee the thing deſired, then the degrees cut by that Vane, ſheweth the quantity of the angle.

But if the quantity of the angle be greater then 45 degrees, then let the Vane on the ſight next your eye, be placed at 45 degrees, the ſight ſtill ſtanding on 90 degrees, and let the Vane of the farther ſight ſtand on the beginning of degrees as before, then move forward the farther ſight, till through the ſight of the nearer, and pinnes head of the farther, you ſee the thing deſired, and then the parts cut by the ſight on the ſide of the ruler, ſheweth the degrees anſwering to the quantity of the angle.

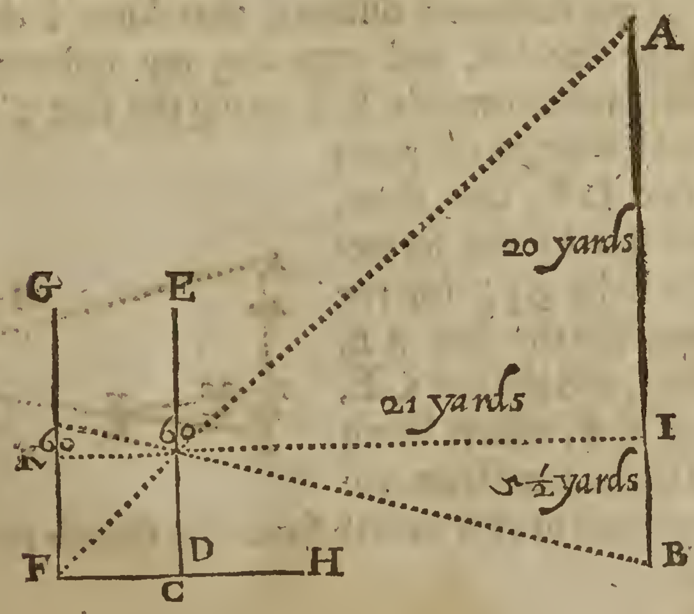
Example.

Let there bee the Towre A B, whoſe height I deſire to know, and would finde it by the angle of altitude: firſt having placed my inſtrument and ſome knowne diſtance, which I imagine 100 yards, I ſet my ruler which I direct to the place aſſigned, where obſerving by my eye, I finde it to be an angle under 45 degrees, ſo placing my ſights at 90 and 45 degrees, I ſet the farther Vane on the beginning of degrees, and move down the nearer Vane, till through the hole thereof, and the pins head of the other, I ſee the point A, which done, I obſerve the degrees cut by the neerer Vane, and I finde them to be 30 degrees, which is the angle required, the rule then ſtands thus:

As ſine complement the angle found is to the diſtance given, which is 100. ſo is the right ſine to the altitude required.

As ſine F A B, 60 deg. co. ar	06246
Is to I K 100 yards,	2,00000
So is ſine F 30 deg.	9,69897
	1,76143

to 57 $\frac{73}{100}$. which is the height required, namely A B.

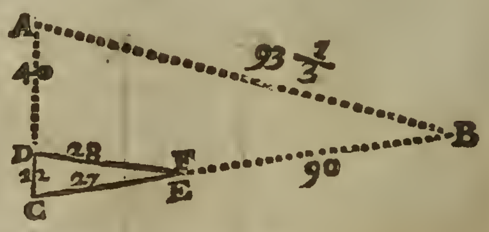


To take the horizontall diſtance from any place aſſigned to another place within a view, at two ſtations.

AT the place from whence the diſtance is required to any aſſigned marke, there place your inſtrument for your firſt obſervation, there appoint out ſome place for your ſecond ſtation, being a convenient diſtance from the firſt, which ought to bee at leaſt $\frac{1}{10}$. of the required diſtance, otherwiſe it will make ſuch acute angles in the points of interſection, as will cauſe great errour. Theſe things being conſidered, and your inſtrument orderly placed, at your place of ſtanding, marke what degree the ſouth end of your needle doth cut upon the card in the bottome of the box, becauſe reſpect is to be had there unto all your ſecond ſtation, for the true erecting and placing your inſtrument; in that place make a point upon your paper, which call the center of your firſt ſtation, from which point firſt draw a line to the marke, whoſe diſtance is required, then draw another line to the ſecond ſtation, which line you ſhall call your ſtationary diſtance, and in that line from the point of your firſt ſtation, ſet off by ſome ſcale, the meaſured diſtance betweene the two ſtations, and make there a point for your ſecond ſtation. Then take u p the table, leaving a marke at your firſt ſtation, and carry it to the ſecond ſtation, where having placed the ſame in ſuch ſort, that the pricke of your ſecond ſtation ſtand directly over the marke whereunto you looked, Lay the edge of your ruler by the ſtationary line, turning about the table till through the ſights thereof you ſee the marke ſet up at your firſt ſtation; that done, ſcrew faſt your table, and if you have performed this rightly, you ſhall finde the needle in the boxe cutting on the ſame degree it did at firſt, if not, you have wrought falſe; then from the point of your ſecond ſtation, draw a line to the marke required, and note the place where it interſecteth the firſt line drawne, meaſuring that line on the ſame ſcale you meaſured the other, and you ſhall finde the right diſtance required, and in this manner may you take any horizontall diſtance whatſoever.

Example.

Let A B be a diſtance required, and let C be the place appointed for the ſecond ſtation, which being meaſured forty yards, I ſet it off from D to C, and make that my ſtationary diſtance, that done, I draw the line D F, repreſenting the line A B, and removing my inſtrument to C, I make a ſecond obſerdation towards B, drawing the line C B, from the point of my ſecond ſtation, to the point interſecting the line D F; that done, I meaſure the ſaid line by the former ſcale, and I finde it to be $93\frac{1}{3}$. for the line D F, being equall to the line A B, the diſtance required, and the line C E, is equall to the line C B, which being likewiſe meaſured in the ſame ſcale, will be found 90. the ground of this ariſeth from the fourth propoſition of the ſixth of *Euclid.*



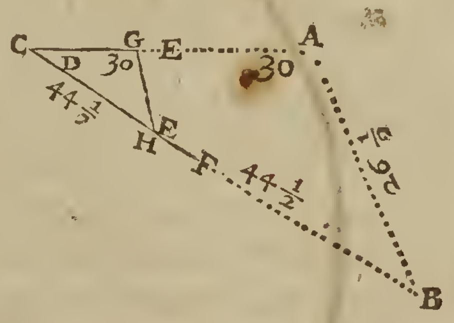
At

At one ſtation or at one placing the inſtrument, to give the diſtance betweene two deſired markes.

HAving placed your tableat any diſtance, firſt make a point repreſenting your ſtation, from which point draw a line to each ſeuerall marke, then meaſure the diſtance to each marke ſeverally, and ſet thoſe diſtances by the ſcale upon thoſe two lines, ſetting each diſtance on his owne line, and from the extreame part of one, to the extreame of the other, draw a line, which being meaſured on the ſame ſcale, will bee the right diſtance required.

Example.

Let A B, bee two markes, whoſe diſtance one from the other is required, the point C being the place of ſtanding, where I placing my inſtrument, I draw the lines C G, and C F, that done, I meaſure the diſtances from my ſtation to each marke, and finde the one which is C A, 30. and the other C B, 44 $\frac{1}{2}$. which I ſet off by ſome ſcale in the lines C G, and C F, which I finde to bee in G and H, that done, I draw the line G H, which meaſured in the ſame ſcale, is found to be 26 $\frac{1}{2}$ the thing required.



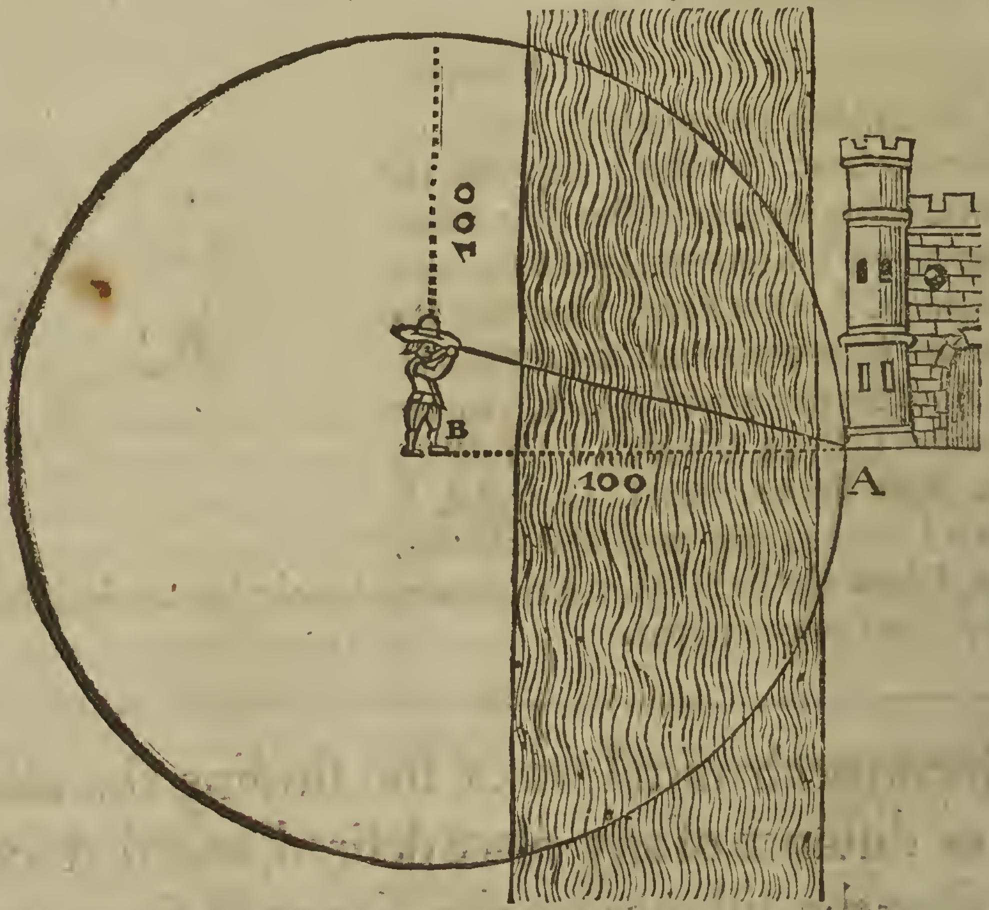
Divers mechanicall waies for finding the altitude or diſtance of any place deſired, and firſt for finding the diſtance by the diagonall from the eye to the baſe.

How to take a diſtance without any inſtrument, onely by the brimme of the hat.

HAving made choiſe of a place for your ſtation, erect your body as ſtreight as you can, that done, pull downe the brimme of your hat untill you ſee the baſe from the horizontall line of your ſtation, that done, turne your body about without ſtirring your hat, and note where it cutteth in the ſame horizon, which being meaſured, will be found equall to the diſtance required, for the body being the center, and the brimme of the hat the circumference; and ſeeing all the lines drawne from the center to the circumference, are equall; it followeth then that theſe muſt likewiſe be equall.

Example.

Let there be a Towre placed at A, whoſe diſtance is required; firſt I obſerve the horizontall line from my foot, to ſome part of the Caſtle, which is the line A B, that being done, I make B, the center whereon I ſtand, where erecting my body, I pull downe the brimme of my Hat, untill it interſecteth in A, that done, I move my ſelfe about untill I perceive ſome part of the horizontall plane interſecting the brimme of my Hat, which is at C, then meaſuring the diſtance from B to C, I finde it 100 yards, which is equall to the diſtance A B, the thing required.

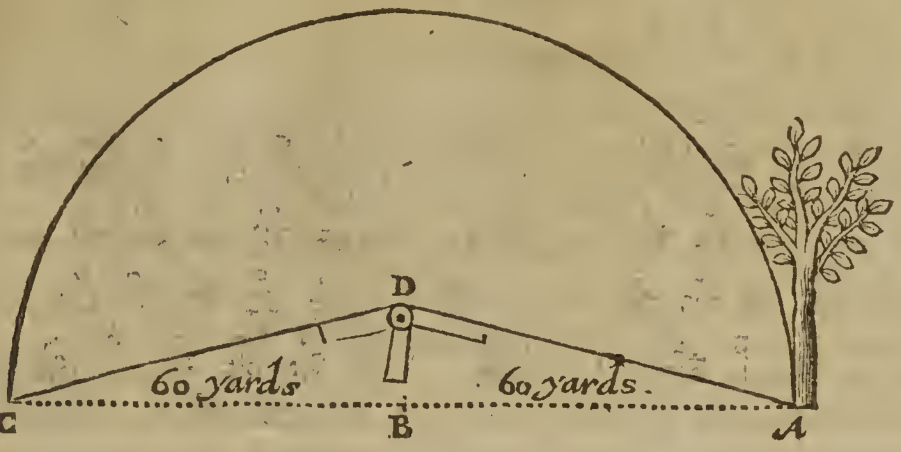


How to take a diſtance with a ioynt Ruler.

THis differs not much from the other, for in ſtead of your body perpendicularly erected, you ſhall make uſe of one of the limmes of your ruler, which muſt hang perpendicular to the horizon, the other being opened to that angle which the diagonall maketh with the perpendicular; that done, move about as you did in the former, and obſerve againe what place of the horizontall plaine it cutteth, and to that meaſure, which is equall to the diſtance required.

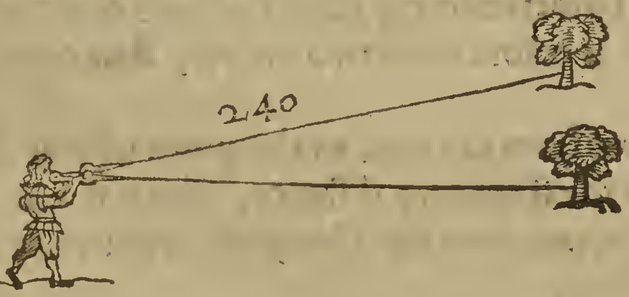
Example.

Let the diſtance required be A B, and the place of my ſtation being B, I obſerve the angle from my eye, which is at D to the horizontall baſe at B, and moving my inſtrument about, I obſerve againe where it cutteth in the horizontall baſe, and I finde it to be at C, to which I meaſure, and finde it 60 yards, which is equall to the diſtance required, they being both ſemidiameters to a circle.



Having the diſtance betweene two places, to finde the diſtance of each from any ſtation, performed by ſcale and Compaſſe.

Let there be two trees which are diſtant from each other 20 foot, and I deſire the ſtationary diſtance to each. Having made choice of a place for my ſtation, with my Compaſſes in my hand, I erect my body, extending my arme outright, and open the Compaſſes till ſuch time as I ſee the center of the two places interſected by the points of the Compaſſe; that done, I meaſure the diſtance frō my eye to the points of the Compas, which I finde to be two foot, and the rule ſtandeth thus; As the diſtance of the two points are unto two foot, ſo is the diſtance of the two places, from the ſtationary diſtance, alwaies provided that you place your ſtation proportionall to each, that the center of the eye may paſſe betweene them both in an equall proportion, ſo that the Compaſſes being opened, and found to be two inches, the diſtance will bee found 240 foot, the thing required. The readieſt way for performing this, is by a ſcale which may be calculated for that purpoſe, which to ſatisfie the curious Readers, I have performed, being calculated according to 30 inches diſtant from the eye. The uſe hereafter followeth.



The forme of the ſcale with the uſe of the ſame.

This ſcale conſiſteth of ſixe inches long, each inch being devided into ſixteene equall parts, the uſe whereof is thus; having opened my Compaſſes, and placed them at a proportionall diſtance, I apply them to the ſcale, obſerving what parts in the ſcale it fals in, for ſo many times is the bredth given, contained in the diſtance required.

$9\frac{15}{93}$	$5\frac{10}{94}$	$5\frac{5}{95}$	5
$5\frac{35}{89}$	$5\frac{30}{90}$	$5\frac{25}{91}$	$5\frac{20}{92}$
$5\frac{55}{85}$	$5\frac{50}{86}$	$5\frac{45}{87}$	$5\frac{40}{88}$
$5\frac{75}{81}$	$5\frac{70}{80}$	$5\frac{65}{83}$	$5\frac{60}{84}$
$6\frac{18}{77}$	$6\frac{12}{78}$	$6\frac{6}{79}$	6—
$6\frac{42}{73}$	$6\frac{36}{74}$	$6\frac{30}{75}$	$6\frac{24}{76}$
$6\frac{66}{69}$	$6\frac{60}{70}$	$6\frac{54}{71}$	$6\frac{48}{72}$
$7\frac{25}{65}$	$7\frac{18}{66}$	$7\frac{11}{67}$	$7\frac{4}{68}$
$7\frac{53}{61}$	$7\frac{46}{62}$	$7\frac{32}{63}$	$7\frac{32}{64}$
$8\frac{24}{57}$	$8\frac{16}{58}$	$8\frac{84}{59}$	8—
$9\frac{3}{53}$	$8\frac{48}{54}$	$8\frac{40}{55}$	$8\frac{32}{56}$
$9\frac{39}{49}$	$9\frac{30}{50}$	$9\frac{21}{51}$	$9\frac{12}{52}$
$10\frac{40}{45}$	$10\frac{30}{46}$	$10\frac{20}{47}$	10—
$11\frac{39}{41}$	$11\frac{28}{42}$	$11\frac{17}{43}$	$11\frac{6}{44}$
$12\frac{36}{37}$	$12\frac{24}{38}$	$12\frac{12}{39}$	12—
$14\frac{18}{33}$	$14\frac{4}{34}$	$13\frac{25}{35}$	$13\frac{12}{36}$
$16\frac{16}{29}$	16—	$15\frac{15}{31}$	15—
$19\frac{5}{25}$	$18\frac{12}{26}$	$17\frac{21}{27}$	$17\frac{4}{28}$
$22\frac{18}{21}$	$21\frac{18}{22}$	$20\frac{20}{23}$	—20
$28\frac{4}{17}$	26—	$25\frac{5}{19}$	—24
$36\frac{12}{13}$	$34\frac{4}{14}$	32—	30—
$53\frac{3}{9}$	48—	$43\frac{7}{11}$	40—
96—	80—	$68\frac{4}{7}$	—60
480—	240—	160—	120—

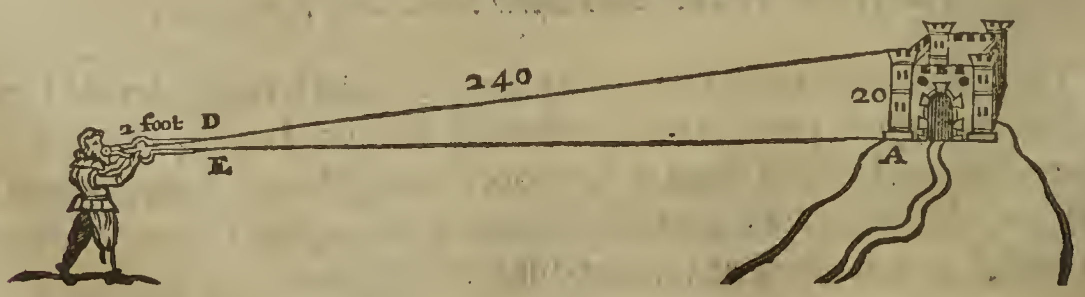
Example.

Let the diſtance betweene the two trees in the former diagram bee twenty foot, having placed my Compaſſes at thirty inches diſtant from my eye, I open them till the points are equall with each tree, that done, I apply the points of the Compaſſe to the ſcale, ſetting one foot in the end where the greateſt number of parts are, and obſerve where the other foot toucheth, which I finde to be in twelve, wherefore I conclude that the diſtance is twelve times more than the bredth betweene the trees, which was twenty foot, ſo that 20 multiplied by 12. ſa, 240. the true diſtance required.

Having the diſtance given to finde the altitude of a Towre or Caſtle by the aforegoing rule.

LEt the diſtance given be A B, 240. and the height of the Caſtle A C, required, firſt having placed my ſelfe at B, with my Compaſſes in my hand, I open them, extending my arme out right, till I ſee the points of the compaſſe equall with the baſe and top of the Caſtle which is A G, that done, I obſerve by my ſcale, the parts that the Compaſſes ſtand at, and I finde it as before to be two inches; that done, the rule ſtandeth thus.

As the diſtance from my eye, to the point of my Compaſſe, which is two foot, is to the ſtationary diſtance, which is 240. ſo is two inches, the diſtance of the points of the Compaſſe from each other, to twenty, the height required.



Ex.m-

Example.

As B E, or B D, 24 inches
Is to D E, 2 inches,
So is B A, 240 foot, which reduced
to inches, is 2880 inches,
to A G, 240 inches, which is 20 foot.

Many more waies I might lay downe, which are mechanicall, as the uſe of the cinicall quadrant, with divers others, but I thinke theſe ſufficient in regard they cannot be wrought without errors, whereſore I doe not approve of any of theſe onely for delight or curioſity, and partly to ſatisfie ſome of my friends, I have the rather put them to publike view.

THE

THE VSE OF THE ENSVING TABLES.

Foraſmuch as I have ſometimes before made mention of the Square and ſquare Root, I have thought it not impertinent here to adioyn a table of the ſquares of every number, from 1 *to* 25000, *and of the Cubes of every number from* 1 *to* 10000. *I cannot at preſent ſhew the ample uſe of thoſe Tables in ſundrie Algebraicall, Geometricall, and other Mathematicall Problemes: onely as an introduction to the uſe of them, I have thought good to annex theſe Problemes following.*

Prob. 1.

To find the ſquare of any number, not exceeding 25000, *by theſe tables.*

Looke your number in the firſt colume being the colume of Roots, and right againſt it in the ſecond colume being the colume of ſquares, you have the ſquare of that number.

Thus I find the ſquare of this number 6572 to be 43191184.

Prob. 2.

To find the Cube of any number by theſe tables, not exceeding 10000.

Looke your number in the firſt colume of Roots, and againſt it in the third colume, being the colume of cubes, you ſhall find the cube of that number.

Thus you may finde the cube of the foreſaid number, 6572 to bee 283852461248.

Prob. 3.

To find the ſquare Root of a ſquare number not exceeding 62500000000.

Looke in the colume of Squares for the number given, and right againſt it in the firſt colume being the colume of Roots, you have the root of that number.

Thus I find the ſquare Root of this number 43191184 to be 6572.

Prob. 4.

To find the Cubicke root of a Cubick number not exceeding 1000000000000 by theſe tables.

Looke in the colume of cubes for the number propoſed, and right againſt it in the colume of Roots, you ſhall finde the cubit Root thereof.

Thus you may find the cubick Root of the foreſaid number 283852461248 to be 6572.

Prob. 5

To find the ſquare of a fraction, or of a whole number having a fraction annexed.

Seeke in the Table for the ſquare of the Numerator of your fraction, and ſet that for Numerator, alſo the ſquare of the Denominator for Denominator. So is this new fraction the ſquare of the former.

But if it be a fraction annexed to a whole number, and you deſire the ſquare of that whole number and fraction, reduce it into an improper fraction, and ſeeke the ſquare both of the Numerator and of the Denominator as is aforeſaid.

Example. 1.

Let there be required the ſquare of this fraction $\frac{6572}{8763}$ I find the ſquare of its Numerator to be 43191184 which I ſet for Numerator, alſo I find the ſquare of 8763 the Denominator to be 76790169, which I ſet for Denominator, and ſo I haue this fraction $\frac{43191184}{76790169}$ being the ſquare of $\frac{6572}{8763}$.

Example. 2.

Let there be required the ſquare of this whole number and fraction annexed namely $2764\frac{2}{3}$, I reduce it into an improper fraction, and ſo it is $\frac{8294}{3}$ whoſe ſquare will be found as before to be $\frac{68790436}{9}$

Prob. 6.

To find the Cube of a fraction, or of a whole number having a fraction annexed.

SEcke for the cube of the Numerator of your fraction, and ſet that for Numerator, alſo the cube of the Denominator of your fraction ſet for Denominator, ſo is this new fraction the cube of the former.

Example.

Let there be required the cube of this fraction $\frac{6572}{8763}$, I find in the Table the cube of the Numerator to be 283852461248, and the cube of the Denominator to be 672912250947 therefore I ſay the cube of this fraction $\frac{6572}{8763}$ is $\frac{283852461248}{672912250947}$.

But if there be a fraction annexed to a whole number, and you deſire the cube of that whole number and fraction, reduce it into an improper fraction, and ſeeke the cube both of the Numerator and Denominator as before.

Example.

Let there bee required the cube of this whole number and fraction $2764\frac{2}{3}$, which being reduced into an improper fraction is $\frac{7294}{3}$ whoſe cube I ſeeke as in the former Example and find it to be $\frac{38805856184}{27}$.

Prob. 7.

To find the root ſquare of a fraction.

LOoke in the Table for the ſquare Root of the Numerator of your fraction, and ſet that for Numerator, alſo the ſquare Root of the Denominator, ſo is this new fraction the root ſquare of the fraction propoſed.

Example.

Let there be required the Root ſquare of this fraction $\frac{43191184}{76790169}$ I finde the ſquare Root of the Numerator to be 6572 and the ſquare Root of the Denominator 8763, therefore I ſay $\frac{6572}{8763}$ is the ſquare Root of that fraction.

Example.

Example. 2.

Againe, admit there be required the ſquare Root of this number $97\frac{1}{3}$, I reduce it to an improper fraction, and ſo it is $\frac{82}{3}$, now the Root of 82 will be nine and ſomewhat more, but the Root of three is more then one and leſſe then two. But for the more exactneſſe of the Root of this and other ſuch like fractions, you may put both to the Numerator and Denominator, 2,4,6, or 8 Ciphers as the Table, will beare, as in this example of $\frac{82}{3}$ putting to either ſixe Ciphers, it wilbe $\frac{82000000}{3000000}$, whoſe Root ſquare we may find as before to be $\frac{9055}{1732}$ which is the Root of $27\frac{1}{3}$.

Prob. 8.

To find the Cubicke Root of a fraction.

Find in the Tables the Cubick Root of the Numerator, and ſet that for Numerator of the Root, alſo the Cubick Root of the Denominator, and ſet that for Denominator, ſo is this new fraction the Cubick Root of the former.

Example. 1.

As if there were required the Cubick Root of this fraction $\frac{283253491248}{672912250947}$ We ſhall find it by the Tables to be as before $\frac{6572}{8763}$.

Example. 2.

Againe, if there be required the Cubicke Root of this number $27\frac{1}{3}$ I reduce it to an improper fraction, and ſo it is $\frac{82}{3}$, and becauſe I cannot have exactly the Roots of this Numerator and Denominator, that I may come the more neerly to it, I put both to the Numerator and Denominator 3, 6, 9 or 12 Ciphers, as in this example I put to either of them nine Ciphers, and ſo the fraction is $\frac{82000000000}{3000000000}$ whoſe Cubicke Root wee ſhall find as before to be $\frac{4344}{1442}$.

Prob. 9.

To find nearely the ſquare Root of a number not ſquare.

If you cannot find your number whoſe ſquare Root you deſire in the colume of ſquares, take the next leſſer number, and ſet downe the Root thereof for the integrall Root of your number, and of the reſidue make a fraction thus, ſubſtract that number taken out of the Table from your number given, and the remayner ſet for Numerator, whoſe Denominator is the foreſaid Root doubled, and one added thereto.

Example.

Example.

I Would find the Root ſquare of this number 64280306, I find it not in the Table, but the next leſſer is 64272289, whoſe Roote ſquare is 8017, then I ſubſtract 64272289 from 64280306, and there remaynes 8017 which I make the Numerator of a fraction, then I double the foreſaid quotient, and adde one to it being doubled, and ſo it is 16035 which I make the Denominator, and ſo the fraction is $\frac{8017}{16035}$, therefore the Root required is 8017 $\frac{8017}{16035}$, that is neere $8017\frac{1}{2}$ which is nearly the Root of the number propoſed.

Prob. 10.

To find nearely the Cubick Root of a number not Cubick.

TAke in the colume of Cubes, the number that is next leſſer then the number propoſed, the Cube Root of which number ſet down for part of the Root required, namely ſo much of it as can be expreſſed in a whole number. Then for the fraction, ſubſtract the ſaid number taken out of the Table from the number propoſed, and the remayner ſet for Numerator, whereto you may find a Denominator thus. To the Root before found adde one, and that multiply by the Root tripled, and to the product adde one, and that ſet for Denominator.

Example.

Let there be required the Cubick Root of this number 927337229380, I find it not in the Table of Cubes, but the next leſſe then it is 927144591751 whoſe Cubicke Roote is 9751. Now for the fraction I ſubſtract this number found in the Table from the number given, and the remayner is 192637629 which I make the Numerator of a fraction, and for the Denominator I adde 1, to the foreſaid Root 9751, and ſo it is 9752 which I multiply by the triple of the Root, namely by 29253, & the product is 285275256, to which adding one I have the Denominator, and ſo the fraction is $\frac{192637629}{285275257}$ therfore I ſay the Root required is nearly found, namely 9751 $\frac{1926\ 7629}{2\ 5275257}$.

Prob. 10.

The Aggregate of the Squares of two numbers being given, together with the ſquare of their halfe ſumme, to find thoſe numbers.

DOuble the ſquare of the halfe ſumme, and ſubſtract it from the foreſaid Aggregate, halfe the remayner is ſquare of halfe the difference of thoſe two numbers by the 9 2. of *Euclide.* Or, From halfe the aforeſaid aggregate, ſubſtract the ſquare of the halfe ſumme, the remainder is the ſquare of halfe the difference of thoſe two numbers.

Example.

As let there be given the aggregate of the ſquares of two unknowne numbers, 104522890. and the ſquare of their halfe ſumme 41809156. I demand thoſe numbers.

The halfe of 104522890. is 52261445. from which ſubſtracting the ſquare 41809156. there remaines 10452289. whoſe root ſquare wee may finde in the table to be 3233. which is the difference of the two numbers required from the halfe ſumme: and ſeeing the ſquare of halfe their ſumme is 41809156. whoſe root ſquare is 6466. therefore 6466. is halfe the ſumme of the two numbers required, whereto adding the aforeſaid halfe difference 3233. the ſumme is 9699. or ſubſtracting it, the remainder is 3233. therefore theſe numbers 9699. and 3233. are the two numbers required.

Prob. 12.

The aggregate of the ſquares of two numbers being given, together with the ſquare of halfe their difference, to finde thoſe two numbers.

FRom halfe the foreſaid aggregate, ſubſtract the ſquare of halfe their difference, the remainder is the ſquare of the halfe ſumme of thoſe two numbers, by the ſame.

As let there be given the aggregate of the ſquares of two unknowne numbers, 103407444. and the ſquare of halfe their difference 423801. I would know thoſe numbers.

The halfe of 103407444. is 51703722, from which ſubſtracting the ſquare, 423801. there remaines 51279921. whoſe root ſquare we finde to be 7161. which is halfe the ſumme of the two numbers required, and ſeeing the ſquare of halfe their difference is 423801. whoſe root ſquare is 651. therefore 651. is halfe the difference of the numbers required, that is, the difference of one of them above the halfe ſumme, and of the other beneath, therefore if to the halfe ſumme 7161. we adde 651. the ſumme is 7812 the greater number, or if we ſubſtract it, there remains 6510 the leſſer

Prob. 13.

The aggregate of the ſquares of the halfe ſumme, and halfe difference of two numbers given, together with one of thoſe numbers to finde the other of them.

FRom the aforeſaid aggregate being doubled, ſubſtract the ſquare of the number given, the remainder is the ſquare of the other number required, by the ſame.

The aggregate of the ſquares of the halfe ſumme, and halfe difference of two numbers let be 51703722. and let one of thoſe numbers be 6510. I demand the other of them.

The aggregate 51703722. being doubled is 103407444. from which ſubſtracting 42380100. the ſquare of 6510. there remaynes 61027344. whoſe root ſquare we ſhall finde in the table to be 7812. which is the other number required.

Prob. 14.

The two ſides of a right angled triangle given to finde the hypothenuſall.

AS in the triangle next following, Prob. 16. let the ſide C D, be 65. parts, and the ſide B D, 76 parts, there is required the hypothenuſall B C.

The ſquares of the ſides are equall to the ſquare of the hypothenuſall by 47. 1 *Euclid.*

Therefore the ſquare of 65. being 4225. and the ſquare of 76. being 5776. I adde them both together, the ſumme is 10001. whoſe root ſquare is 100. and ſomewhat more, therefore I ſay the hypothenuſall B C, is 100. parts, and ſomewhat more.

Prob. 15.

The hypothenuſall and a ſide given, to finde the other ſide.

AS in the triangle next following, let the hypothenuſall B C, be 100 parts, the ſide C D, 65. and let there be required the other ſide B D.

From the ſquare of the hypothenuſall ſubſtract the ſquare of the ſide given, the remainder is the ſquare of the ſide required.

Thus the ſquare of B C, 100 is 10000. from which ſubſtracting the ſquare of C D, 65. namely, 4225. there remaines 5775. whoſe root ſquare is almoſt 76. which is the ſide B D, required.

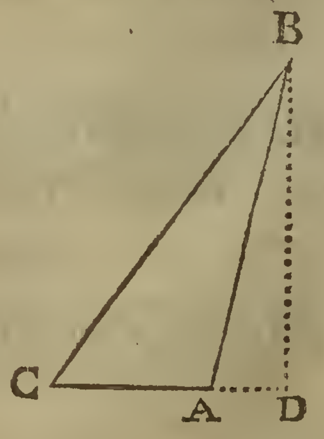
Prob. 16.

The three ſides of an obtuſe angled triangle being given, to finde how far the perpendicular fals without the obtuſe angle.

FRom the ſquare of B C, ſubſtract the ſquares of A B, and A C, and divide halfe the remainder by A C, the quotient is A D, by the 12 prop. 2 *Euclid.*

As let the ſide A B, be 80 parts, the ſide A C, 40. and B C, 100. and let there be required A D.

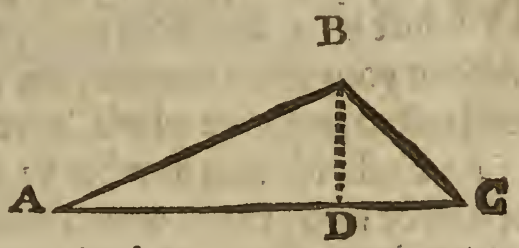
The ſquare of A B, 80. is 6400. and of A D, 40. the ſquare is 1600 the ſumme of theſe two ſquares is 8000. which ſubſtracted from the ſquare of B C, 100. namely from 10000. there remaines 2000. the halfe whereof is 1000. which divided by A C, 40. the quotient is. A D, 25 parts.



Prob.

Prob. 17.

The three ſides of an acute angled triangle, being given to finde where the perpendicular fals.



FRom the ſumme of the ſquares of AB, and AC, ſubſtract the ſquare of BC, and devide halfe the remainder by AC, the quotient is AD, by 13. 2 *Euclid.*

As let the ſide AB, be 80 parts, the ſide BC, 40. and AC, 100. and let there be required AD.

The ſquare of AB, 80. is 6400. the ſquare of AC, 100. is 10000. the ſumme 16400. from which ſubſtracting the ſquare of BC, 40. namely 1600. there remaines 14800. the halfe whereof is 7400. which divided by AC, 100. the quotient is AD, 74.

Prob. 18.

Admit the ſemediameter of the earth to be 3436. miles, and that there is a mountaine in height one mile: how farre may that mountaine be ſeene upon plaine ground or at ſea.

HEreto the ſemediameter of the earth 3436. adding one mile for the height of the mountaine, it is 3437. whoſe ſquare is 11812969. from which ſubſtracting the ſquare of 3436. namely 11806096. there remaines 6873. whoſe root ſquare is almoſt 83: ſo that that mountaine may be ſeene at ſea almoſt 83. miles.

Prob. 19.

Admit the ſemediameter of the earth to be 3436 miles, and that there is a mountaine ſeene off at ſea 83 miles, I *demand the height of that mountaine.*

THe ſquare of 3436. is 11806096. the ſquare of 83. is 6889. the ſumme of theſe two ſquares is 11812985. whoſe root ſquare is 3437. $\frac{16}{6765}$, from which ſubſtracting the ſemediameter 3436. there reſts 1 $\frac{16}{6875}$ miles, that is a mile and little more for the height of the mountaine.

Prob. 20.

The diameter of a circle given to finde the area of that circle.

IT is proved by *Archimedes*, that the ſquare of the diameter of a circle is in proportion to the area of that circle as 14 to 11:

As let the diameter of a circle be 21 inches, I demand the area of that circle.

The ſquare of 21 is 44. I ſay then.

As 14 to 11. ſo is 441 to 346 $\frac{1}{2}$ which is the area of the circle required.

Prob. 21.

To divide a number by extreame and meane proportion.

MVltiply the ſquare of your given number by 5. and devide the product by 4. and from the ſquare root of the quotient, ſubſtract the halfe of your given number, the remainder is the greater portion, which ſubſtracted from the whole, leaveth the leſſe part.

As to divide this number 8127. ſo proportionally I finde the ſquare of it to be 66031876. which multiplied by 5. the product is 330159380. which divided by 4. the quotient is 825 9845: whoſe root ſquare wee may finde to be 9085 $\frac{2620}{18171}$, from which ſubſtracting the halfe of 8127 namely 4063 $\frac{1}{2}$. there remaines 5021 $\frac{23411}{36342}$. the greater part being almoſt 5021 $\frac{2}{3}$. which ſubſtracted from the whole 8127. leaveth 3105 $\frac{12931}{36342}$ the leſſer part.

Prob. 22.

The diameter of a circle given to finde the ſides of the inſcribed equilater, triangle, ſquare, pentagon, and decagon.

TRiple the ſquare of the ſemediameter, the root ſquare of that product is the ſide of the triangle; double the ſquare of the ſemediameter, and the root ſquare of the product is the ſide of the ſquare.

Devide the ſemediameter by extreame and meane proportion, the greater part is the ſide of the decagon, whoſe ſquare added to the ſquare of the ſemediameter, and of that totall the root ſquare extracted is the ſide of the inſcribed pentagon. Maſter *Digges* of Geometricall ſollides, whoſe name is worthy of renowne.

Example.

As let the ſemediameter of a circle bee 2100. the ſquare thereof is 4410000. which tripled is 13230000. whoſe root ſquare is 3637 $\frac{2231}{7274}$. which is the ſide of the inſcribed triangle. Againe, doubling 4410000. it is 8820000. whoſe root ſquare is 2969 $\frac{5039}{10079}$. which is the ſide of the inſcribed ſquare.

Sundry other problemes of this nature touching the inſcription and circumſcription of figures might bee propoſed, which here wee paſſe over.

Prob. 23.

If 14900 men be put into a ſquare Battle, how many will there be in ranke and how many in file.

I Find by theſe Tables the ſquare Root of 14900 to be 122, and there remaynes ſixteen, therefore I ſay there will be 122 men in ranke and as many in file and ſixteen men over.

Prob. 24.

There is delivered to the Sergeant Maior 60 Enſignes, in euery Enſigne 160 Pikes, and ſhort weapon. The Generals pleaſure is that he ſhall put them in one mayne Squadron, and to arme it round with 7. rankes of Pikes, I demand how many Pikes, and how many ſhort weapons he ſhall uſe to make the greateſt Squadron, and how many rankes ſhall be in that Battaile.

FIrſt multiplying 160 by ſix the product is 9600, which is the number of men delivered to be embatled, whoſe greateſt Root ſquare in integers is 97. the number of men in Front or Flank, and 191 men remaynes, now conſidering the Front of the ſhort weapon muſt be fourteen leſſe being armed round with ſeven Rankes of Pikes, therefore ſubſtracting fourteen out of ninety ſeven, there remaynes eightie three, which is the number of the Ranks of ſhort weapon, whoſe ſquar is 6889, the number of ſhort weapon and that ſubſtracted from 9409 the ſquare Battle of ninetie ſeven in a ranke leaves 2520 the number of Pikes.

Prob. 25.

There is delivered to the Sergeant Maior 8500 Souldiers with a commandment that hee imbattle them in ſuch ſort that euery Souldier in front, ſtand three foot diſtant from the other, and every ranke from other ſeven foot, and this obſerved to frame of theſe men the greateſt battaile that may bee to make the ground ſquare; I demand, how many in a ranke, and how many rankes in that battaile.

BEcauſe the diſtance of the Ranke is to the diſtance of the Files, as ſeven to three multiply 8500 the number of Souldiers propoſed by 3. the product is 25500 which I divide by ſeven the quotient is 3643 almoſt, whoſe Root ſquare is ſixty beſides the remayner which here we neglect, whence it appeares there will be ſixty Rankes in that battaile, which multiplyed by ſeven, and the product divided by three, the quotient is 140, the number of Souldiers in every Ranke.

Prob.

Prob. 26.

Experience teacheth that to incampe 6000 Footmen, and 600 Horſe commodiouſly with roome ſufficient for the ſtreets, Market place, munition, and other occaſions, it is requiſite the Campe ſhould be 640 paces ſquare. But there is delivered by the Generall 30000 Footmen, and 3000 Horſe. I demand what ſcope of ground the Lord High Marſhall or Camp-maſter ſhould appoint to receive this Company lodging them as commodiouſly as the other.

Foraſmuch as 6600 men require 640 paces ſquare of ground, that is 409600 ſquare paces of ground, I ſay by the Rule of proportion. As 6600 men, to 409600 ſquare paces, ſo 33000 men, to 2048000 ſquare paces, whoſe Root ſquare is betweene 1431 and 1432 paces, ſo that it appeares the ſide of a ſquare piece of ground of ſufficient capacitie to incampe commodiouſly, 33000 men ſhould be 1432 paces.

Theſe and ſundry other ſuch queſtions ſet downe by Maſter *Thomas Digges* in his *Stratioticos*, and by others treating of Military Diſcipline may aptly and eaſily be performed by helpe of theſe Tables whereof it ſhall ſuffice here to have given this taſte.

Prob. 27.

Of a ſhip of 100 tuns be 44 foote long at the keele, of what length ſhall the keele be of a Ship of 200 tuns.

Foraſmuch as like Solids are in treble the proportion of their correſpondent ſides or lines, therefore I ſeeke the cube of 44 and find the ſame to be 85184. And ſay by the Rule of Proportion:

As 100 tuns is in proportion to 85184. ſo is 200 tuns to 170368 whoſe Root Cube is neare $55\frac{11}{25}$ the length of the keele required.

Prob. 28.

If a ſhip of 100 tuns be 44 foot long at the keele, of what burthen ſhall the like ſhip be whoſe keele in length is $55\frac{11}{25}$ foot?

The cube of 44 is 85184 the Cube of $55\frac{11}{25}$ is neere as before 170368 I ſay then by the Rule of Proportion.

As 85184 to 170368 ſo is 100 tuns to 200 tuns, the burthen of the ſhip required.

Prob. 29.

If a ſhip of 100 tuns be 20 foot broad, at the mid-ſhip beame, of what breadth there ſhall the like ſhip bee of 200 tuns.

THe Cube of 20 is 8000 I ſay then by the Rule of Proportion: As 100 tuns to 8000, ſo is 200 tuns to 16000, whoſe Cubicke Root is 25 $\frac{1}{5}$ almoſt.

Or if you will worke the ſame in inches, you may reduce 20 foot into inches, ſo is it 240 inches, whoſe Cube is 13824000, I ſay then.

As 100 tuns to 13824000, ſo is 200 tuns to to 27648000, whoſe cubick Root is almoſt 302 $\frac{2}{5}$ inches.

Prob. 30.

If a ſhip of a 100 tuns be 20 foot broad at the midſhip beame, of what burthen ſhall the like ſhip be, whoſe breadth there is 25 $\frac{1}{5}$ foot.

THe cube of 20 is 8000, and the cube of 25 $\frac{1}{5}$ is 16003, I ſay then. As 8000 to 100 tuns, ſo is 16003 to 200 $\frac{1}{27}$ tuns, the burthen of that other ſhip being moulded in all points like the former.

Prob. 31.

If a fathome of rope of ten inches compaſſe, weigh 17 pounds, how much will a fathome of 8 inches compaſſe weigh.

THe ſquare of 10 is 100, the ſquare of 8 is 64, I ſay then by the Rule of Proportion.

As 100 is in Proportion to 17 pound, ſo is 64 to 10 $\frac{88}{100}$ pounds.

Prob. 32.

If a fathome of rope of 10 inches compaſſe weigh 17 pounds of what compaſſe ſhall the rope be, whereof 1 fathome weigheth 10 $\frac{88}{100}$ pounds.

THe ſquare of 10 being 100, and 10 $\frac{88}{100}$ reduced into an improper fraction $\frac{1088}{100}$ I ſay by the Rule of Proportion.

As $\frac{17}{1}$ pounds is in proportion to $\frac{100}{1}$, ſo is $\frac{1088}{100}$ pounds in proportion to $\frac{108800}{1700}$.

Which reduced is 64 whoſe Root ſquare is 8 inches the compaſſe of the rope required.

Prob.

Prob. 33.

Admit there be a Demicannon having its bore 6 $\frac{1}{4}$ inches, and that it ſhoot a bullet weighing 32 pounds, I demand the weight of that ſhot that ſerves a Cannon of 8 $\frac{1}{2}$ inches diameter.

HEre as the cube of the one Diameter is in proportion to the cube of other, ſo is weight of one ſhot to the weight of the other; therfore I ſeeke the cube of 6 $\frac{1}{4}$ or $\frac{25}{4}$ and find it to be $\frac{15625}{64}$. Alſo I ſeeke the cube of 8 $\frac{1}{2}$ or $\frac{17}{2}$ and find it to be $\frac{4913}{8}$, I ſay then by the rule of Proportion.

As $\frac{15625}{64}$ to $\frac{4913}{8}$, ſo is $\frac{32}{1}$ pound to $\frac{10061824}{125000}$ which improper fraction reduced into its integers is 80 $\frac{61824}{125000}$ or 80 $\frac{1}{2}$ pounds almoſt.

Prob. 34.

Admit a ſhot of 32 pounds weight ſerve a piece, the Diameter of whoſe bore is 6 $\frac{1}{4}$ inches of what Diameter ſhall the bore of that peece be which ſhoots a bullet of 80 $\frac{1}{2}$ pounds.

THe cube of 6 $\frac{1}{4}$ is $\frac{15625}{64}$ I ſay therefore,

As 32 pounds is in proportion to 80 $\frac{1}{2}$ pounds or $\frac{161}{2}$, ſo is $\frac{15625}{64}$ to to $\frac{2515625}{128}$ whoſe cubick Root is neere 8 $\frac{1}{2}$ the Diameter of the bore required.

Sundry other queſtions of like nature may be reſolved in like manner, all which together with the more ample uſe of thoſe Tables in ſundry Algebraicall and Geometricall Problemes I muſt at preſent paſſe over, contenting my ſelfe with theſe few examples here ſhewed.

R.	Sq.	Cu.
1	1	1
2	4	8
3	9	27
4	16	64
5	25	125
6	36	216
7	49	343
8	64	512
9	81	729
10	100	1000
11	121	1331
12	144	1728
13	169	2197
14	196	2744
15	225	3375
16	256	4096
17	289	4913
18	324	5832
19	361	6859
20	400	8000
21	441	9261
22	484	10648
23	529	12167
24	576	13824
25	675	15625
26	676	17576
27	729	19683
28	784	21972
29	841	24389
30	900	27000
31	961	29791
32	1024	32768
33	1089	35937
34	1156	39304
35	1225	42825
36	1296	48656
37	1369	50653
38	1444	54872
39	1521	55419
40	1600	64000
41	1681	68921
42	1764	74088
43	1849	79507
44	1936	85184
45	2025	91125
46	2116	97336
47	2209	103823
48	2304	110592
49	2401	117649
50	2500	125000
51	2601	135651
52	2704	140608
53	2809	148877
54	2916	157464
55	3025	167375
56	3136	175616
57	3249	185193
58	3364	195112
59	3481	205379
60	3600	216000
61	3721	216981
62	3844	238328
63	3969	250047
64	4096	262244
65	4225	274625
66	4356	287496
67	4489	300753
68	4624	314432
69	4771	329199
70	4900	333000
71	5041	357911
72	5184	373348
73	5329	389017
74	5476	405224
75	5625	411875
76	5776	438976
77	5929	456533
78	6084	474522
79	6241	493039
80	6400	512000
81	6561	531441
82	6724	550408
83	6889	571787
84	7056	592604
85	7225	614125
86	7396	636056
87	7569	648303
88	7744	681472
89	7921	705669
90	8100	729000
91	8281	753571
92	8464	778688
93	8649	804357
94	8836	830584
95	9025	857375
96	9216	884736
97	9409	915673
98	9604	941192
99	9801	970299
100	10000	1000000

R.	Sq.	Cu.
101	10201	1030301
102	10404	1061208
103	10609	1092727
104	10816	1124856
105	11025	1157625
106	11236	1191016
107	11449	1225043
108	11664	1259712
109	11881	1295029
110	12100	1331000
111	12321	1367631
112	12544	1404928
113	12769	1442897
114	12996	1481544
115	13225	1520875
116	13456	1560896
117	13689	1601613
118	13924	1643032
119	14161	1685159
120	14400	1728000
121	14641	1771561
122	14884	1815848
123	15129	1860867
124	15376	1906624
125	15625	1953125
126	15876	2000376
127	16129	2048383
128	16384	2097172
129	16641	2146689
130	16900	2197000
131	17161	2248091
132	17424	2299968
133	17689	2352637
134	17956	2406104
135	18225	2460375
136	18496	2515856
137	18769	2570353
138	19044	2628072
139	19321	2685619
140	19600	2744000
141	19881	2803221
142	20164	2864288
143	20449	2924207
144	20736	2985984
145	21025	3027525
146	21316	3112136
147	21609	3176523
148	21904	3241792
149	22201	3307949
150	22500	3375000
151	22801	3442951
152	23104	3511808
153	23409	3581577
154	23716	3652264
155	24025	3723875
156	24336	3796416
157	24649	3869893
158	24964	3944312
159	25281	4019679
160	25600	4096000
161	25921	4173281
162	26244	4251528
163	26569	4330747
164	26896	4410944
165	27225	4492125
166	27556	4574296
167	27889	4657463
168	28224	4741632
169	28561	4826809
170	28900	4913000
171	29241	5000211
172	29584	5088448
173	29929	5177717
174	30276	5268024
175	30625	5359375
176	30976	5451776
177	31329	5545233
178	31684	5639752
179	32041	5735339
180	32400	5832000
181	32761	5929741
182	33124	6028568
183	33489	6128487
184	33856	6229504
185	34225	6331625
186	34596	6434856
187	34969	6539203
188	35344	6644672
189	35721	6751269
190	36100	6859000
191	36481	6967871
192	36864	7077888
193	37249	7189057
194	37636	7301384
195	38025	7414875
196	38416	7529536
197	38809	7645373
198	39204	7762392
199	39601	7880599
200	40000	8000000

R.	Sq.	Cu.
201	40401	8120601
202	40804	8242408
203	41209	8365427
204	41616	8489664
205	42025	8615125
206	42436	8741816
207	42849	8869743
208	43264	8998912
207	43681	9129329
21	44100	9261000
211	44521	9393931
212	44944	9528128
213	45369	9663597
214	45796	9800344
215	46225	9938375
216	46656	10077696
217	47089	10218313
218	47524	10360232
219	47961	10503459
220	48400	10648000
221	48841	10793861
222	49284	10941048
223	49729	11089567
224	50176	11239424
225	50625	11390625
226	51076	11543176
227	51529	11697083
228	51984	11852452
229	52441	12008989
230	52900	12167000
231	53361	12326391
232	53824	12487168
233	54289	12649337
234	54756	12812904
235	55225	12977875
236	55696	13144256
237	56169	13312053
238	56644	13481272
239	57121	13651919
240	57600	13824000
241	58081	13997521
242	58564	14172448
243	59049	14348907
244	59536	14526784
245	60025	14705125
246	60516	14886936
247	61009	15059223
248	61504	15252992
249	62001	15438249
250	62500	15625000
251	63001	15813251
252	63504	16003008
253	64009	16194277
254	64516	16387064
255	65025	16581375
256	65536	16777216
257	66049	16974593
258	66564	17173512
259	67081	17473979
260	67600	17576000
261	68121	17779581
262	68644	17984728
263	69169	18191447
264	69696	18399744
265	70225	18609625
266	70756	18821096
267	71289	19034163
268	71824	19248832
269	72361	19465109
270	72900	19683000
271	73441	19902511
272	73984	20123648
273	74529	20346417
274	75076	20571024
275	75625	20796875
276	76176	21024576
277	76729	21253933
278	77284	21484952
279	77841	21717639
280	78400	21952000
281	78961	22188041
282	79524	22425768
283	80089	22665187
284	80656	22906304
285	81225	23149125
286	81796	23393656
287	82369	23539903
288	82944	23897872
289	83521	24137569
290	84100	24389000
291	84681	24642171
292	85264	24897088
293	85849	25153757
294	86436	25412184
295	87025	25672375
296	87616	25934336
297	88209	26198073
298	88804	26353592
299	89401	26730899
300	90000	27000000

R.	Sq.	Cu.
301	90601	27270901
302	91204	27543608
303	91809	27818127
304	92416	28094464
305	93025	28372625
306	93636	28652616
307	94249	28934443
308	94864	29218112
309	95481	29503629
310	96100	29791000
311	96721	30080231
312	97344	30371328
313	97969	30664297
314	98596	30959144
315	99225	31255875
316	99856	31554496
317	100489	31855013
318	101124	32157432
319	101761	32461759
320	102400	32768000
321	103041	33076161
322	103684	33386248
323	104329	33698267
324	104976	34012224
325	105625	34328125
326	106276	34645976
327	106929	34965783
328	107584	35287552
329	108241	35611289
330	108900	35937000
331	109561	36264691
332	110224	36594368
333	110889	36926037
334	111556	37259704
335	112225	37595375
336	112896	37933056
337	113569	38272753
338	114244	38614472
339	114921	38958219
340	115600	39304000
341	116281	39651821
342	116964	40001688
343	117649	40353607
344	118336	40707584
345	119025	41063625
346	119716	41421736
347	120409	41781923
348	121104	42144192
349	121801	42508549
350	122500	42875000

R.	Sq.	Cu.
351	123201	43243551
352	123904	43614208
353	124609	43986977
354	125316	44361864
355	126025	44738875
356	126736	45118016
357	127449	45499293
358	128164	45882712
359	128881	46268279
360	129600	46656000
361	130321	47045881
362	131044	47439928
363	131769	47832147
364	132496	48228544
365	133225	48627125
366	133956	49027896
367	134689	49430863
368	135424	49836032
369	136161	50243409
370	136900	50653000
371	137641	51064811
372	138384	51478848
373	139129	51895117
374	139876	52313624
375	140625	52734375
376	141376	53157376
377	142129	53582633
378	142884	54010152
379	143641	54439939
380	144400	54872000
381	145161	55306341
382	145924	55742968
383	146689	56181887
384	147456	56623104
385	148225	57066625
386	148996	57512456
387	149769	57960603
388	150544	58411072
389	151321	58863869
390	152100	59319000
391	152881	59776471
392	153664	60236288
393	154449	60698457
394	155236	61162984
395	156025	61629875
396	156816	62099136
397	157609	62570773
398	158404	63044792
399	159201	63521199
400	160000	64000000

R.	Sq.	Cu.
401	160801	64481201
402	161604	64964808
403	162409	65450827
404	163216	65939264
405	164025	66430125
406	164836	66923416
407	165649	67419143
408	166464	67917312
409	167281	68417929
410	168100	68921000
411	168921	69426531
412	169744	69934528
413	170569	70444997
414	171396	70957944
415	172225	71473375
416	173056	71991296
417	173889	72511713
418	174724	73034632
419	175561	73560059
420	176400	74088000
421	177241	74618461
422	178084	75151448
423	178929	75686967
424	179776	76225024
425	180625	76765625
426	181476	77308776
427	182329	77854483
428	183184	78402752
429	184041	78953589
430	184900	79507000
431	185761	80062991
432	186624	80621568
433	187489	81182737
434	188356	81746504
435	189225	82312875
436	190096	82881856
437	190969	83453453
438	191844	84027672
439	192721	84604519
440	193600	85184000
441	194481	85766121
442	195364	86350888
443	196249	86938307
444	197136	87528384
445	198025	88121125
446	198916	88716536
447	199809	89314623
448	200704	89915392
449	201601	90518849
450	202500	91125000

R.	Sq.	Cu.
451	203401	91733851
452	204304	92345408
453	205209	92959677
454	206116	93576664
455	207025	94196375
456	207936	94818816
457	208849	95443993
458	209764	96071912
459	210681	96702579
460	211600	97336000
461	212521	97972181
462	213444	98611128
463	214369	99252847
464	215296	99897344
465	216225	100544625
466	217156	101194696
467	218089	101847563
468	219024	102503232
469	219961	103161709
470	220900	103823000
471	221841	104487111
472	222784	105154048
473	223729	105823817
474	224676	106496424
475	225625	107171875
476	226576	107850176
477	227529	108531333
478	228484	109215352
479	229441	109902239
480	230400	110592000
481	231361	111284641
482	232324	111980168
483	233289	112678587
484	234256	113379904
485	235225	114084125
486	236196	114791256
487	237169	115501303
488	238144	116214272
489	239121	116930169
490	240100	117649000
491	241081	118370771
492	242064	119095488
493	243049	119823157
494	244036	120553784
495	245025	121287375
496	246016	122023936
497	247009	122763473
498	248004	123505992
499	249001	124251499
500	250000	125000000

6 Cent.

R.	Sq.	Cu.
501	251001	125751501
502	252004	126506008
503	253009	127263527
504	254016	128024064
505	255025	128787625
506	256036	129554216
507	257049	130323843
508	258064	131096512
509	259081	131872229
510	260100	132651000
511	261121	133432831
512	262144	134217728
513	263169	135005697
514	264196	135796744
515	265225	136590875
516	266256	137388096
517	267289	138188413
518	268324	138991832
519	269361	139798359
520	270400	140608000
521	271441	141420761
522	272484	142236648
523	273529	143055667
524	274576	143877824
525	275625	144703125
526	276676	145531576
527	277729	146363183
528	278784	147197952
529	279841	148035889
530	280900	148877000
531	281961	149721291
532	283024	150568768
533	284089	151419437
534	285156	152273304
535	286225	153130375
536	287296	153990656
537	288369	154854153
538	289444	155720872
539	290521	156590819
540	291600	157464000
541	292681	158340421
542	293764	159220088
543	294849	160103007
544	295936	160989184
545	297025	161878625
546	298116	162771336
547	299209	163667323
548	300304	164566592
549	301401	165469149
550	302500	166375000

6 Cent.

R.	Sq.	Cu.
551	303601	167284151
552	304704	168196608
553	305809	169112377
554	306916	170031464
555	308025	170953875
556	309136	171879616
557	310249	172808683
558	311364	173741112
559	312481	174676879
560	313600	175616000
561	314721	176558481
562	315844	177504328
563	316969	178453547
564	318096	179306144
565	319225	188262125
566	320356	181221496
567	321489	182154263
568	322624	183150432
569	323761	184220009
570	324900	185193000
571	326041	186169411
572	327184	187149248
573	328329	188132517
574	329476	189119224
575	330625	190109375
576	331776	191102976
577	332929	192100033
578	334084	193100552
579	335241	194104539
580	336400	195112000
581	337561	196122941
582	338724	197137368
583	339889	198155287
584	341056	199176704
585	342225	200201625
586	343396	201230056
587	344569	202262003
588	345744	203297472
589	346921	204336469
590	348100	205379000
591	349281	206425071
592	350464	207474688
593	351649	208527857
594	352836	209584584
595	354025	210644875
596	355216	211708736
597	356409	212776173
598	357604	213847192
599	358801	214921799
600	360000	216000000

7 Cent.

R.	Sq.	Cu.
601	361201	217081801
602	362404	218167208
603	363609	219256227
604	364816	220348864
605	366025	221445125
606	367236	222545016
607	368449	223648543
608	369664	224755712
609	370881	225866529
610	372100	226981000
611	373321	228099131
612	374544	229220928
613	375769	230346397
614	376996	231475544
615	378225	232608375
616	379456	233744896
617	380689	234885113
618	381924	236029032
619	383161	237176659
620	384400	238328000
621	385641	239483061
622	386884	240641848
623	388129	241804367
624	389376	242970624
625	390625	244140625
626	391876	245314376
627	393129	246491883
628	394384	247673152
629	395641	248858189
630	396900	250047000
631	398161	251239591
632	399424	252435968
633	400689	253636137
634	401956	254840104
635	403225	256047875
636	404496	257259456
637	405769	258474853
638	407044	259694072
639	408321	260917119
640	409600	262144000
641	410881	263374721
642	412164	264609288
643	413449	265847707
644	414736	267089984
645	416025	268336125
646	417316	269586136
647	418609	270840023
648	419904	272097792
649	421201	273359449
650	422500	274625000

7 Cent.

R.	Sq.	Cu.
651	423801	275894451
652	425104	277167808
653	426409	278445077
654	427716	279726264
655	429025	281011375
656	430336	282300416
657	431649	283593393
658	432964	284890312
659	434281	286191179
660	435600	287496000
661	436921	288804781
662	438244	290117528
663	439569	291434247
664	440896	292754944
665	442225	294079625
666	443556	295408296
667	444889	296740963
668	446224	298077632
669	447561	299418309
670	448900	300763000
671	450241	302111711
672	451584	303464448
673	452929	304821217
674	454276	306182024
675	455625	307546875
676	456976	308915776
677	458329	310288733
678	459684	311665752
679	461041	313046839
680	462400	314432000
681	463761	315821241
682	465124	317214568
683	466489	318611987
684	467856	320013504
685	469225	321419125
686	470596	322828856
687	471969	324242703
688	473344	325660672
689	474721	327082769
690	476100	328509000
691	477481	329939371
692	478864	331373888
693	480249	332812557
694	481636	334255384
695	483025	335702375
696	484416	337153536
697	485809	338608873
698	487204	340068392
699	488601	341532099
700	490000	343000000

8 *Cent.*

R.	Sq.	Cu.
701	491401	344472101
702	492804	345948408
703	494209	347428927
704	495616	348913664
705	497025	350402625
706	498436	351895816
707	499849	353393243
708	501264	354894912
709	502681	356400829
710	504100	357911000
711	505521	359425431
712	506944	360944128
713	508369	362467097
714	509796	363994344
715	511225	365525875
716	512656	367061696
717	514089	368601813
718	515524	370146232
719	516961	371694959
720	518400	373248000
721	519841	374805361
722	521284	376367048
723	522729	377933067
724	524176	379503424
725	525625	371078125
726	527076	372657176
727	528529	374240583
728	529984	375828352
729	531441	377420489
730	532900	389017000
731	534361	390617891
732	535824	392223168
733	537289	393832837
734	538756	395446904
735	540225	397065375
736	541696	398688256
737	543169	400315553
738	544644	401947272
739	546121	403583419
740	547600	405224000
741	549081	406869021
742	550564	408518488
743	552049	410172407
744	553536	411830784
745	555025	413493625
746	556516	415160936
747	558009	416832723
748	559504	418508992
749	561001	420189749
750	562500	421875000

8 *Cent.*

R.	Sq.	Cu.
751	564001	423564751
752	565504	425259008
753	567009	426957777
754	568516	428661064
755	570025	430368875
756	571536	432081216
757	573049	433798093
758	574564	435519512
759	576081	437245479
760	577600	438976000
761	579121	440711081
762	580644	442450728
763	582169	444194947
764	583696	445943744
765	585225	447697125
766	586756	449455096
767	588289	451217663
768	589824	452984832
769	591361	454756609
770	592900	456533000
771	594441	458314011
772	595984	460099648
773	597529	461889917
774	599076	463684824
775	600625	465484375
776	602176	467288576
777	603729	469097433
778	605284	470910952
779	606841	472729139
780	608400	474552000
781	609961	476379541
782	611524	478211768
783	613089	480048687
784	614656	481890304
785	616225	483736625
786	617796	485587656
787	619369	487443403
788	620944	489303872
789	622521	491169069
790	624100	493039000
791	625681	494913671
792	627264	496793088
793	628849	498677257
794	630436	500566184
795	632025	502459875
796	633616	504358336
797	635209	506261573
798	636804	508169592
799	638401	510082399
800	640000	512000000

R.	Sq.	Cu.
801	641601	513922401
802	643204	515849608
803	644809	517781627
804	646416	519718464
805	648025	521660125
806	649636	523606616
807	651249	525557943
808	652864	527514112
809	654481	529475129
810	656100	531441000
811	657721	533411731
812	659344	535387328
813	660969	537367797
814	662596	539353144
815	664225	541343375
816	665856	543338496
817	667489	545338513
818	669124	547343432
819	670761	549353259
820	672400	551368000
821	674041	553387661
822	675684	555412248
823	677329	557441767
824	678976	559476224
825	680625	561515625
826	682276	563559976
827	683929	565609283
828	685584	567663552
829	687241	569722789
830	688900	571787000
831	690561	573856191
832	692224	575930368
833	693889	578009537
834	695556	580093704
835	697225	582182875
836	698896	584277056
837	700569	586376253
838	702244	588480472
839	703921	590589719
840	705600	592704000
841	707281	594823321
842	708964	596947688
843	710649	599077107
844	712336	601211584
845	714025	603351125
846	715716	605495736
847	717409	607645423
848	719104	609800192
849	720801	611960049
850	722500	614125000

R.	Sq.	Cu.
851	724201	616295051
852	725904	618470208
853	727609	620650477
854	729316	622835864
855	731025	625026375
856	732736	627222016
857	734449	629422793
858	736164	631628712
859	737881	633839779
860	739600	636056000
861	741321	638277381
862	743044	640503928
863	744769	642735647
864	746496	644972544
865	748225	647214625
866	749956	649461896
867	751689	651714363
868	753424	653972032
869	755161	656234909
870	756900	658503000
871	758641	660776311
872	760384	663054848
873	762129	665338617
874	763876	667627624
875	765625	669921875
876	767376	672221376
877	769129	674526133
878	770884	676836152
879	772641	679151439
880	774400	681472000
881	776161	683797841
882	777924	686128968
883	779689	688465387
884	781456	690807104
885	783225	693154125
886	784996	695506456
887	786769	697864103
888	788544	700227072
889	790321	702595369
890	792100	704969000
891	793881	707347971
892	795664	709732288
893	797449	712121957
894	799236	714516984
895	801025	716917375
896	802816	719323136
897	804609	721734273
898	806404	724150792
899	808201	726572699
900	810000	729000000

R.	Sq.	Cu.
901	811801	731432701
902	813604	733870808
903	815409	736314327
904	817216	738763264
905	819025	741217625
906	820836	743677416
907	822649	746142643
908	824464	748613312
909	826281	751089429
910	828100	753571000
911	829921	756058031
912	831744	758550528
913	833569	761048497
914	835396	763551944
915	837225	766060875
916	839056	768575296
917	840889	771095213
918	842724	773620632
919	844561	776151559
920	846400	778688000
921	848241	781229961
922	850084	783777448
923	851929	786330467
924	853776	788889024
925	855625	791453125
926	857476	794022776
927	859329	796597983
928	861184	799178752
929	863041	801765089
930	864900	804357000
931	866761	806954491
932	868624	809557568
933	870489	812166237
934	872356	814780504
935	874225	817400375
936	876096	820025856
937	877969	822656953
938	879844	825293672
939	881721	827936019
940	883600	830584000
941	885481	833237621
942	887364	835896888
943	889249	838561807
944	891136	841232384
945	893025	843908625
946	894916	846590536
947	896809	849278123
948	898704	851971392
949	900601	854670349
950	902500	857375000

R.	Sq.	Cu.
951	904401	860085351
952	906304	862801408
953	908209	865523177
954	910116	868250664
955	912025	870983875
956	913936	873722816
957	915849	876467493
958	917764	879217912
959	919681	881974079
960	921600	884736000
961	923521	887503681
962	925444	890277128
963	927369	893056347
964	929296	895841344
965	931225	898632125
966	933156	901428696
967	935089	904231063
968	937024	907039232
969	938961	909853209
970	940900	912673000
971	942841	915498611
972	944784	918330048
973	946729	921167317
974	948676	924010424
975	950625	926859375
976	952576	929714176
977	954529	932574833
978	956484	935441352
979	958441	938313739
980	960400	941192000
981	962361	944076141
982	964324	946966168
983	966289	949862087
984	968256	952763904
985	970225	955671625
986	972196	958585256
987	974169	961504803
988	976144	964430272
989	978121	967361669
990	980100	970299000
991	982081	973242271
992	984064	976191488
993	986049	979146657
994	988036	982107784
995	990025	985074875
996	992016	988047936
997	994009	991026973
998	996004	994011992
999	998001	997002999
1000	1000000	1000000000

R.	Sq.	Cu.
1001	1002001	1003003001
1002	1004004	1006012008
1003	1006009	1009027027
1004	1008016	1012048064
1005	1010025	1015075125
1006	1012036	1018108216
1007	1014049	1021147343
1008	1016064	1024192512
1009	1018081	1027243729
1010	1020100	1030301000
1011	1022121	1033364331
1012	1024144	1036433728
1013	1026169	1039509197
1014	1028196	1042590744
1015	1030225	1045678375
1016	1032256	1048772096
1017	1034289	1051871913
1018	1036324	1054977832
1019	1038361	1058089859
1020	1040400	106120800
1021	1042441	1064332261
1022	1044484	1067462648
1023	1046529	1070599167
1024	1048576	1073741824
1025	1050625	1076890625
1026	1052676	1080045576
1027	1054729	1083206683
1028	1056784	1086373952
1029	1058841	1089947389
1030	1060900	1092727000
1031	1062961	1095912791
1032	1065024	1099104768
1033	1067089	1102302937
1034	1069156	1105507304
1035	1071225	1108717875
1036	1073296	1111934656
1037	1075369	1115157653
1038	1077444	1118386872
1039	1079521	1121622319
1040	1081600	1124864000
1041	1083681	1128111921
1042	1085764	1131366088
1043	1087849	1134626507
1044	1089936	1137893184
1045	1092025	1141166125
1046	1094116	1144445336
1047	1096209	1147730823
1048	1098304	1151022592
1049	1100401	1154320649
1050	1102500	1157625000

R.	Sq.	Cu.
1051	1104601	1160935651
1052	1106704	1164252608
1053	1108809	1167575877
1054	1110916	1170905464
1055	1113025	1174241375
1056	1115136	1177583616
1057	1117249	1180932193
1058	1119364	1184287112
1059	1121481	1187648379
1060	1123600	1191016000
1061	1125721	1194389981
1062	1127844	1197770328
1063	1129969	1201157047
1064	1132096	1204550144
1065	1134225	1207949625
1066	1136356	1211355496
1067	1138489	1214767763
1068	1140624	1218186432
1069	1142761	1221611509
1070	1144900	1225043000
1071	1147041	1228480911
1072	1149184	1231925248
1073	1151329	1235376017
1074	1153476	1238833224
1075	1155625	1242296875
1076	1157776	1245766976
1077	1159929	1249243533
1078	1162084	1252726552
1079	1164241	1256216039
1080	1166400	1259712000
1081	1168561	1263214441
1082	1170724	1266723368
1083	1172889	1270238787
1084	1175056	1273760704
1085	1177225	1277289125
1086	1179396	1280824056
1087	1181569	1284365503
1088	1183744	1287913472
1089	1185921	1291467969
1090	1188100	1295029000
1091	1190281	1298596571
1092	1192464	1302170688
1093	1194649	1305751357
1094	1196836	1309338584
1095	1199025	1312932375
1096	1201216	1316532736
1097	1203409	1320139673
1098	1205604	1323753192
1099	1207801	1327373299
1100	1210000	1331000000

R.	Sq.	Cu.
1101	1212201	1334633301
1102	1214404	1338273208
1103	1216609	1341919727
1104	1218816	1345572864
1105	1221025	1349232625
1106	1223236	1352899016
1107	1225449	1356572043
1108	1227664	1360251712
1109	1229881	1363938029
1110	1232100	1367631000
1111	1234321	1371330631
1112	1236544	1375036928
1113	1238769	1378749897
1114	1240996	1382469544
1115	1243225	1386195875
1116	1245456	1389928896
1117	1247689	1393668613
1118	1249924	1397415032
1119	1252161	1401168159
1120	1254400	1404928000
1121	1256641	1408694561
1122	1258884	1412467848
1123	1261129	1416247867
1124	1263376	1420034624
1125	1265625	1423828125
1126	1267876	1427628376
1127	1270129	1431435383
1128	1272384	1435249152
1129	1274641	1439069689
1130	1276900	1442897000
1131	1279161	1446731091
1132	1281424	1450571968
1133	1283689	1454418637
1134	1285956	1458274104
1135	1288225	1462135375
1136	1290496	1466003456
1137	1292769	1469878353
1138	1295044	1473760072
1139	1297321	1477648619
1140	1299600	1481544000
1141	1301881	1485446221
1142	1304164	1489355288
1143	1306449	1493271207
1144	1308736	1497193984
1145	1311025	1501123625
1146	1313316	1505060136
1147	1315609	1509003523
1148	1317904	1512953792
1149	1320201	1516910949
1150	1322500	1520875000

R.	Sq.	Cu.
1151	1324801	1524845951
1152	1327104	1528823808
1153	1329409	1532808577
1154	1331716	1536800264
1155	1334025	1540798875
1156	1336336	1544804416
1157	1338649	1548816893
1158	1340964	1552836312
1159	1343281	1556862679
1160	1345600	1560896000
1161	1347921	1564936281
1162	1350244	1568983528
1163	1352569	1573037747
1164	1354896	1577098944
1165	1357225	1581167125
1166	1359556	1585242296
1167	1361889	1589324463
1168	1364224	1593413632
1169	1366561	1597509809
1170	1368900	1601613000
1171	1371241	1605723211
1172	1373584	1609840448
1173	1375929	1613964717
1174	1378276	1618096024
1175	1380625	1622234375
1176	1382976	1626379776
1177	1385329	1630532233
1178	1387684	1634691752
1179	1390041	1638858339
1180	1392400	1643032000
1181	1394761	1647212741
1182	1397124	1651400568
1183	1399489	1655595487
1184	1401856	1659797504
1185	1404225	1664006625
1186	1406596	1668222856
1187	1408969	1672446203
1188	1411344	1676676672
1189	1413721	1680914269
1190	1416100	1685159000
1191	1418481	1689410871
1192	1420864	1693669888
1193	1423249	1697936057
1194	1425636	1702209384
1195	1428025	1706489875
1196	1430416	1710777536
1197	1432809	1715072373
1198	1435204	1719374392
1199	1437601	1723683599
1200	1440000	1728000000

R.	Sq.	Cu.
1201	1442401	1732323601
1202	1444804	1736654408
1203	1447209	1740992427
1204	1449616	1745337664
1205	1450025	1749690125
1206	1452436	1754049816
1207	1454849	1758416743
1208	1457264	1762790912
1209	1459681	1767172329
1210	1464100	1771561000
1211	1466521	1775956931
1212	1468944	1780360128
1213	1471369	1784770597
1214	1473796	1789188344
1215	1476225	1793613375
1216	1478656	1798045696
1217	1481089	1802485313
1218	1483524	1806932232
1219	1485961	1811386459
1220	1488400	1815848000
1221	1490841	1820316861
1222	1493284	1824793048
1223	1495729	1829276567
1224	1498176	1833767424
1225	1500625	1838265625
1226	1503076	1842771176
1227	1505529	1847284083
1228	1507984	1851804352
1229	1510441	1856331989
1230	1512900	1860867000
1231	1515361	1865409391
1232	1517824	1869959168
1233	1520289	1874516337
1234	1522756	1870080904
1235	1525225	1883652875
1236	1527696	1888232256
1237	1530169	1892819053
1238	1532644	1897413272
1239	1535121	1902014919
1240	1537600	1906624000
1241	1540081	1911240521
1242	1542564	1915864488
1243	1545049	1920495907
1244	1547536	1925134784
1245	1550025	1929781125
1246	1552516	1934434936
1247	1555009	1939090223
1248	1557504	1943764992
1249	1560001	1948441249
1250	1562500	1953125000
1251	1565001	1957816251
1252	1567504	1962515008
1253	1570009	1967221277
1254	1572516	1971935064
1255	1575025	1976656375
1256	1577536	1981385216
1257	1580049	1986121593
1258	1582564	1990865512
1259	1585081	1995616979
1260	1587600	2000376000
1261	1590121	2005142581
1262	1592644	2009916728
1263	1595169	2014698447
1264	1597696	2019487744
1265	1600225	2024284625
1266	1602756	2029089096
1267	1605289	2033901163
1268	1607824	2038720832
1269	1610361	2043548109
1270	1612900	2048383000
1271	1615441	2053225511
1272	1617984	2058075648
1273	1620529	2062933417
1274	1623076	2067798824
1275	1625625	2072671875
1276	1628176	2077552576
1277	1630729	2082440933
1278	1633284	2087336952
1279	1635841	2092240639
1280	1638400	2097152000
1281	1640961	2102071041
1282	1643524	2106997768
1283	1646089	2111932187
1284	1648656	2116874304
1285	1651225	2121824125
1286	1653796	2126781656
1287	1656369	2131746903
1288	1658944	2136719872
1289	1661521	2141700569
1290	1664100	2146689000
1291	1666681	2151685171
1292	1669264	2156689088
1293	1671849	2161700757
1294	1674436	2166720184
1295	1677025	2171747375
1296	1679616	2176782336
1297	1682209	2181825073
1298	1684804	2186875592
1299	1687401	2191933899
1300	1690000	2197000000

R.	Sq.	Cu.
1301	1692601	2202073901
1302	1695204	2207155608
1303	1697809	2212245127
1304	1700416	2217342464
1305	1703025	2222447625
1306	1705636	2227560616
1307	1708249	2232681443
1308	1710864	2237810112
1309	1713481	2242946629
1310	1716100	2248091000
1311	1718721	2253243231
1312	1721344	2258403328
1313	1723969	2263571297
1314	1726596	2268747144
1315	1729225	2273930875
1316	1731856	2279122496
1317	1734489	2284322013
1318	1737124	2289529432
1319	1739761	2294744759
1320	1742400	2299968000
1321	1745041	2305199161
1322	1747684	2310438248
1323	1750329	2315685267
1324	1752976	2320940224
1325	1755625	2326203125
1326	1758276	2331473976
1327	1760929	2336752783
1328	1763584	2342039552
1329	1766241	2347334289
1330	1768900	2352637000
1331	1771561	2357947691
1332	1774224	2363266368
1333	1776889	2368593037
1334	1779556	2373927704
1335	1782225	2379270375
1336	1784896	2384621056
1337	1787569	2389979753
1338	1790244	2395346472
1339	1792921	2400721219
1340	1795600	2406104000
1341	1798281	2411494821
1342	1800964	2416893688
1343	1803649	2422300607
1344	1806336	2427715584
1345	1809025	2433138625
1346	1811716	2438569736
1347	1814409	2444008923
1348	1817104	2449456192
1349	1819801	2454911549
1350	1822500	2460375000

R.	Sq.	Cu.
1351	1825201	2465846551
1352	1827904	2471326208
1353	1830609	2476813977
1354	1833316	2482309864
1355	1836025	2487813875
1356	1838736	2493326016
1357	1841449	2498846293
1358	1844164	2504374712
1359	1846881	2509911279
1360	1849600	2515456000
1361	1852321	2521008881
1362	1855044	2526569928
1363	1857769	2532139147
1364	1860496	2537716544
1365	1863225	2543302125
1366	1865956	2548895896
1367	1868689	2554497863
1368	1871424	2560108032
1369	1874161	2565726409
1370	1876900	2571353000
1371	1879641	2576987811
1372	1882384	2582630848
1373	1885129	2588282117
1374	1887876	2593941624
1375	1890625	2599609375
1376	1893376	2605285376
1377	1896129	2610969633
1378	1898884	2616662152
1379	1901641	2622362939
1380	1904400	2628072000
1381	1907161	2633789341
1382	1909924	2639514968
1383	1912689	2645248887
1384	1915456	2650991104
1385	1918225	2656741625
1386	1920996	2662500456
1387	1923769	2668267603
1388	1926544	2674043072
1389	1929321	2679826869
1390	1932100	2685619000
1391	1934881	2691419471
1392	1937664	2697228288
1393	1940449	2703045457
1394	1943236	2708870984
1395	1946025	2714704875
1396	1948816	2720547136
1397	1951609	2726397773
1398	1954404	2732256792
1399	1957201	2738124199
1400	1960000	2744000000

R.	Sq.	Cu.
1401	1962801	2749884201
1402	1965604	2755776808
1403	1968409	2761677827
1404	1971216	2767587264
1405	1974025	2773505125
1406	1976836	2779431416
1407	1979649	2785366143
1408	1982464	2791309312
1409	1985281	2797260929
1410	1988100	2803221000
1411	1990921	2809189531
1412	1993744	2815166528
1413	1996569	2821151997
1414	1999396	2827145944
1415	2002225	2833148375
1416	2005056	2839159296
1417	2007889	2845178713
1418	2010724	2851206632
1419	2013561	2857243059
1420	2016400	2863288000
1421	2019241	2869341461
1422	2022084	2875403448
1423	2024929	2881473967
1424	2027776	2887553024
1425	2030625	2893640625
1426	2033476	2899736776
1427	2036329	2905841483
1428	2039184	2911954752
1429	2042041	2918076589
1430	2044900	2924207000
1431	2047761	2930345991
1432	2050624	2936493568
1433	2053489	2942649737
1434	2056356	2948814504
1435	2059225	2954987875
1436	2062096	2961169856
1437	2064969	2967360453
1438	2067844	2973559672
1439	2070721	2979767519
1440	2073600	2985984000
1441	2076481	2992209121
1442	2079364	2998442888
1443	2082249	3004685307
1444	2085136	3010936384
1445	2088025	3017196125
1446	2090916	3023464536
1447	2093809	3029741623
1448	2096704	3036027392
1449	2099601	3042321849
1450	2102500	3048625000
1451	2105401	3054936851
1452	2108304	3061257408
1453	2111209	3067586677
1454	2114116	3073924664
1455	2117025	3080271375
1456	2119936	3086626816
1457	2122849	3092990993
1458	2125764	3099363912
1459	2128681	3105745579
1460	2131600	3112136000
1461	2134521	3118535181
1462	2137444	3124943128
1463	2140369	3131359847
1464	2143296	3137785344
1465	2146225	3144219625
1466	2149156	3150662696
1467	2152089	3157114563
1468	2155024	3163575232
1469	2157961	3170044709
1470	2160900	3176523000
1471	2163841	3183010111
1472	2166784	3189506048
1473	2169729	3196010817
1474	2172676	3202524424
1475	2175625	3209046875
1475	2178576	3215578176
1477	2181529	3222118333
1478	2184484	3228667352
1479	2187441	3235225239
1480	2190400	3241792000
1481	2193361	3248367641
1482	2196324	3254952168
1483	2199289	3261545587
1484	2202256	3268147904
1485	2205225	3274759125
1486	2208196	3281379256
1487	2211169	3288008303
1488	2214144	3294646272
1489	2217121	3301293169
1490	2220100	3307949000
1491	2223081	3314613771
1492	2226064	3321287488
1493	2229049	3327970157
1494	2232036	3334661784
1495	2235025	3341362375
1496	2238016	3348071936
1497	2241009	3354790473
1498	2244004	3361517992
1499	2247001	3368254499
1500	2250000	3375000000

R.	Sq.	Cu.
1501	2253001	3381754501
1502	2256004	3388518008
1503	2259009	3395290527
1504	2262016	3402072064
1505	2265025	3408862625
1506	2268036	3415662216
1507	2271049	3422470843
1508	2274064	3429288512
1509	2277081	3436115229
1510	2280100	3442951000
1511	2283121	3449795831
1512	2286144	3456649728
1513	2289169	3463512697
1514	2292196	3470384744
1515	2295225	3477265875
1516	2298256	3484156096
1517	2301289	3491055413
1518	2304324	3497963832
1519	2307361	3504881359
1520	2310400	3511808000
1521	2313441	3518743761
1522	2316484	3525688648
1523	2319529	3532642667
1524	2322576	3539605824
1525	2325625	3546578125
1526	2328676	3553559576
1527	2331729	3560550183
1528	2334784	3567549952
1529	2337841	3574558889
1530	2340900	3581577000
1531	2343961	3588604291
1532	2347024	3595640768
1533	2350089	3602686437
1534	2353156	3609741304
1535	2356225	3616805375
1536	2359296	3623878656
1537	2362369	3630961153
1538	2365444	3638052872
1539	2368521	3645153819
1540	2371600	3652264000
1541	2374681	3659383421
1542	2377764	3666512088
1543	2380849	3673650007
1544	2383936	3680797184
1545	2387025	3687953625
1546	2390116	3695119336
1547	2393209	3702294323
1548	2396304	3709478592
1549	2399401	3716672149
1550	2402500	3723875000

R.	Sq.	Cu.
1551	2405601	3731087151
1552	2408704	3738308608
1553	2411809	3745539377
1554	2414916	3752779464
1555	2418025	3760028875
1556	2421136	3767287616
1557	2424249	3774555693
1558	2427364	3781833112
1559	2430481	3789119879
1560	2433600	3796416000
1561	2436721	3803721481
1562	2439844	3811036328
1563	2442969	3818360547
1564	2446096	3825694144
1565	2449225	3833037125
1566	2452356	3840389496
1567	2455489	3847751263
1568	2458624	3855122432
1569	2461761	3862503009
1570	2464900	3869893000
1571	2468041	3877292411
1572	2471184	3884701248
1573	2474329	3892119517
1574	2477476	3899547224
1575	2480625	3906984375
1576	2483776	3914430976
1577	2486929	3921887033
1578	2490084	3929352552
1579	2493241	3936827539
1580	2496400	3944312000
1581	2499561	3951805941
1582	2502724	3959309368
1583	2505889	3966822287
1584	2509056	3974344704
1585	2512225	3981876625
1586	2515396	3989418056
1587	2518569	3996969003
1588	2521744	4004529472
1589	2524921	4012099469
1590	2528100	4019679000
1591	2531281	4027268071
1592	2534464	4034866688
1593	2537649	4042474857
1594	2540836	4050092584
1595	2544025	4057719875
1596	2547216	4065356736
1597	2550409	4073003173
1598	2553604	4080659192
1599	2556801	4088324799
1600	2560000	4096000000

R.	Sq.	Cu.
1601	2563201	4103684801
1602	2566404	4111379208
1603	2569609	4119083227
1604	2572816	4126796864
1605	2576025	4134520125
1606	2579236	4142253016
1607	2582449	4149995543
1608	2585664	4157747712
1609	2588881	4165509529
1610	2592100	4173281000
1611	2595321	4181062131
1612	2598544	4188852928
1613	2601769	4196653397
1614	2604996	4204463544
1615	2608225	4212283375
1616	2611456	4220112896
1617	2614689	4227952113
1618	2617924	4235801032
1619	2621161	4243659659
1620	2624400	4251528000
1621	2627641	4259406061
1622	2630884	4267293848
1623	2634129	4275191367
1624	2637376	4283098624
1625	2640625	4291015625
1626	2643876	4298942376
1627	2647129	4306878883
1628	2650384	4314825152
1629	2653641	4322781189
1630	2656900	4330747000
1631	2660161	4338722591
1632	2663424	4346707968
1633	2666689	4354703137
1634	2669956	4362708104
1635	2673225	4370722875
1636	2676496	4378747456
1637	2679769	4386781853
1638	2683044	4394826072
1639	2686321	4402880119
1640	2689600	4410944000
1641	2692881	4419017721
1642	2696164	4427101288
1643	2699449	4435194707
1644	2702736	4443297984
1645	2706025	4451411125
1646	2709316	4459534136
1647	2712609	4467667023
1648	2715904	4475809792
1649	2719201	4483962449
1650	2722500	4492125000

R.	Sq.	Cu.
1651	2725801	4500297451
1652	2729104	4508479808
1653	2732409	4516672077
1654	2735716	4524874264
1655	2739025	4533086375
1656	2742336	4541308416
1657	2745649	4549540393
1658	2748964	4557782312
1659	2752281	4566034179
1660	2755600	4574296000
1661	2758921	4582567781
1662	2762244	4590849528
1663	2765569	4599141247
1664	2768896	4607442944
1665	2772225	4615754625
1666	2775556	4624076296
1667	2778889	4632407963
1668	2782224	4640749632
1669	2785561	4649101309
1670	2788900	4657463000
1671	2792241	4665834711
1672	2795584	4674216448
1673	2798929	4682608217
1674	2802276	4691010024
1675	2805625	4699421875
1676	2808976	4707843776
1677	2812329	4716275733
1678	2815684	4724717752
1679	2819041	4733169839
1680	2822400	4741632000
1681	2825761	4750104241
1682	2829124	4758586568
1683	2832489	4767078987
1684	2835856	4775581504
1685	2839225	4784094125
1686	2842596	4792616856
1687	2845969	4801149703
1688	2849344	4809692672
1689	2852721	4818245769
1690	2856100	4826809000
1691	2859481	4835382371
1692	2862864	4843965888
1693	2866249	4852559597
1694	2869636	4861163384
1695	2873025	4869777375
1696	2876416	4878401536
1697	2879809	4887035873
1698	2883204	4895680392
1699	2886601	4904335099
1700	2890000	4913000000

R.	Sq.	Cu.
1701	2893401	4921675101
1702	2896804	4930360408
1703	2900209	4939055927
1704	2903616	4947761664
1705	2907025	4956477625
1706	2910436	4965203816
1707	2913849	4973940243
1708	2917264	4982686912
1709	2920681	4991443829
1710	2924100	5000211000
1711	2927521	5008988431
1712	2930944	5017776128
1713	2934369	5026574097
1714	2937796	5035382344
1715	2941225	5044200875
1716	2944656	5053029696
1717	2948089	5061868813
1718	2951524	5070718232
1719	2954961	5079577959
1720	2958400	5088448000
1721	2961841	5097328361
1722	2965284	5106219048
1723	2968729	5115120067
1724	2972176	5124031424
1725	2975625	5132953125
1726	2979076	5141885176
1727	2982529	5150827583
1728	2985984	5159780352
1729	2989441	5168743489
1730	2992900	5177717000
1731	2996361	5186700891
1732	2999824	5195695168
1733	3003289	5204699837
1734	3006756	5213714904
1735	3010225	5222740375
1736	3013696	5231776256
1737	3017169	5240822553
1738	3020644	5240879272
1739	3024121	5258946419
1740	3027600	5268024000
1741	3031081	5277112021
1742	3034564	5286210488
1743	3038049	5295319407
1744	3041536	5304438784
1745	3045025	5313568625
1746	3048516	5322708936
1747	3052009	5331849723
1748	3055504	5341020992
1749	3059001	5350192749
1750	3062500	5359375000

R.	Sq.	Cu.
1751	3066001	5368567751
1752	3069504	5377771008
1753	3073009	5386984777
1754	3076516	5396209064
1755	3080025	5405443875
1756	3083536	5414689216
1757	3087049	5423945093
1758	3090564	5433211512
1759	3094081	5442488479
1760	3097600	5451776000
1761	3101121	5461074081
1762	3104644	5470382728
1763	3108169	5479701947
1764	3111696	5489031744
1765	3115225	5498372125
1766	3118756	5507723096
1767	3122289	5517084663
1768	3125824	5526456832
1769	3129361	5535839609
1770	3132900	5545233000
1771	3136441	5554637011
1772	3139984	5564051648
1773	3143529	5573476917
1774	3147076	5582912824
1775	3150625	5592359375
1776	3154176	5601816576
1777	3157729	5611284433
1778	3161284	5620762952
1779	3164841	5630252139
1780	3168400	5639752000
1781	3171961	5649262541
1782	3175524	5658783768
1783	3179089	5668315687
1784	3182656	5677858304
1785	3186225	5687411625
1786	3189796	5696975656
1787	3193369	5706550403
1788	3196944	5716135872
1789	3200521	5725732069
1790	3204100	5735339000
1791	3207681	5744956671
1792	3211264	5754585088
1793	3214849	5764224257
1794	3218436	5773874184
1795	3222025	5783534875
1796	3225616	5793206336
1797	3229209	5802888573
1798	3232804	5812581592
1799	3236401	5822285399
1800	3240000	5832000000

R.	Sq.	Cu.
1801	3243601	5841725401
1802	3247204	5851461608
1803	3250809	5861208627
1804	3254416	5870966464
1805	3258025	5880735125
1806	3261636	5890514616
1807	3265249	5900304943
1808	3268864	5910106112
1809	3272481	5919918129
1810	3276100	5929741000
1811	3279721	5939574731
1812	3283344	5949419328
1813	3286969	5959274797
1814	3290596	5969141144
1815	3294225	5979018375
1816	3297856	5988906496
1817	3301489	5998805513
1818	3305124	6008715432
1819	3308761	6018636259
1820	3312400	6028568000
1821	3316041	6038510661
1822	3319684	6048464248
1823	3323329	6058428767
1824	3326976	6068404224
1825	3330625	6078390625
1826	3334276	6088387976
1827	3337929	6098396283
1828	3341584	6108415552
1829	3345241	6118445789
1830	3348900	6128487000
1831	3352561	6138539191
1832	3356224	6148602368
1833	3359889	6158676537
1834	3363556	6168761704
1835	3367225	6178857875
1836	3370896	6188965056
1837	3374569	6199083253
1838	3378244	6209212472
1839	3381921	6219352719
1840	3385600	6229504000
1841	3389281	6239666321
1842	3392964	6249839688
1843	3396649	6260024107
1844	3400336	6270219584
1845	3404025	6280426125
1846	3407716	6290643736
1847	3411409	6300872423
1848	3415104	6311112192
1849	3418801	6321363049
1850	3422500	6331625000

R.	Sq.	Cu.
1851	3426201	6341898051
1852	3429904	6352182208
1853	3433609	6362477477
1854	3437316	6372783864
1855	3441025	6383101375
1856	3444736	6393430016
1857	3448449	6403769793
1858	3452164	6414120712
1859	3455881	6424482779
1860	3459600	6434856000
1861	3463321	6445240381
1862	3467044	6455635928
1863	3470769	6466042647
1864	3474496	6476460544
1865	3478225	6486889625
1866	3481956	6497329896
1867	3485689	6507781363
1868	3489424	6518214032
1869	3493161	6528717909
1870	3496900	6539203000
1871	3500641	6549699311
1872	3504384	6560206848
1873	3508129	6570725617
1874	3511876	6581255624
1875	3515625	6591796875
1876	3519376	6602349376
1877	3523129	6612913133
1878	3526884	6623488152
1879	3530641	6634074439
1880	3534400	6644672000
1881	3538161	6655280841
1882	3541924	6665900968
1883	3545689	6676532387
1884	3549456	6687175104
1885	3553225	6697829125
1886	3556996	6708494456
1887	3560769	6719171103
1888	3564544	6729859072
1889	3568321	6740558369
1890	3572100	6751269000
1891	3575881	6761990971
1892	3579664	6772724288
1893	3583449	6783468957
1894	3587236	6794224984
1895	3591025	6804992375
1896	3594816	6815771136
1897	3598609	6826561273
1898	3602404	6837362792
1899	3606201	6848175699
1900	3610000	6859000000

R.	Sq.	Cu.
1901	3613801	6869835701
1902	3617604	6880682808
1903	3621409	6891541327
1904	3625216	6902411264
1905	3629025	6913292625
1906	3632836	6924185416
1907	3636649	6935089643
1908	3640464	6946005312
1909	3644281	6956932429
1910	3648100	6967871000
1911	3651921	6978821031
1912	3655744	6989782528
1913	3659569	7000755497
1914	3663396	7011739944
1915	3667225	7022735875
1916	3671056	7033743296
1917	3674889	7044762213
1918	3678724	7055792632
1919	3682561	7066834559
1920	3686400	7077888000
1921	3690241	7088952961
1922	3694084	7100029448
1923	3697929	7111117467
1924	3701776	7122217024
1925	3705625	7133328125
1926	3709476	7144450776
1927	3713329	7155584983
1928	3717184	7166730752
1929	3721041	7177888089
1930	3724900	7189057000
1931	3728761	7200237491
1932	3732624	7211429568
1933	3736489	7222633237
1934	3740356	7233848504
1935	3744225	7245075375
1936	3748096	7256313856
1937	3751969	7267563953
1938	3755844	7278825672
1939	3759721	7290099019
1940	3763600	7301384000
1941	3767481	7312680621
1942	3771364	7323988888
1943	3775249	7335308807
1944	3779136	7346640384
1945	3783025	7357983625
1946	3786916	7369338536
1947	3790809	7380705123
1948	3794704	7392083392
1949	3798601	7403473349
1950	3802500	7414875000

R.	Sq.	Cu.
1951	3806401	7426288351
1952	3810304	7437713408
1953	3814209	7449150177
1954	3818116	7460598664
1955	3822025	7472058875
1956	3825936	7483530816
1957	3829849	7495014493
1958	3833764	7506509912
1959	3837681	7518017079
1960	3841600	7529536000
1961	3845521	7541066681
1962	3849444	7552609128
1963	3853369	7564163347
1964	3857296	7575729344
1965	3861225	7587307125
1966	3865156	7598896696
1967	3869089	7610498063
1968	3873024	7622111232
1969	3876961	7633736209
1970	3880900	7645373000
1971	3884841	7657021611
1972	3888784	7668682048
1973	3892729	7680354317
1974	3896676	7692038424
1975	3900625	7703734375
1976	3904576	7715442176
1977	3908529	7727161833
1978	3912484	7738893352
1979	3916441	7750636739
1980	3920400	7762392000
1981	3924361	7774159141
1982	3928324	7785938168
1983	3932289	7797729087
1984	3936256	7809531904
1985	3940225	7821346625
1986	3944196	7833173256
1987	3948169	7845011803
1988	3952144	7856862272
1989	3956121	7868724669
1990	3960100	7880599000
1991	3964081	7892485271
1992	3968064	7904383488
1993	3972049	7916293657
1994	3976036	7928215784
1995	3980025	7940149875
1996	3984016	7952095936
1997	3988009	7964053973
1998	3992004	7976023992
1999	3996001	7988005999
2000	4000000	8000000000

R.	Sq.	Cu.	R.	Sq.	Cu.
2001	4004001	8012006001	2051	4206601	8627738651
2002	4008004	8024024008	2052	4210704	8640364608
2003	4012009	8036054027	2053	4214809	8653002877
2004	4016016	8048096064	2054	4218916	8665653464
2005	4020025	8060150125	2055	4223025	8678316375
2006	4024036	8072216216	2056	4227136	8690991616
2007	4028049	8084294343	2057	4231249	8703679193
2008	4032064	8096384512	2058	4235364	8716379112
2009	4036081	8108486729	2059	4239481	8729091379
2010	4040100	8120601000	2060	4243600	8741816000
2011	4044121	8132727331	2061	4247721	8754552981
2012	4048144	8144865728	2062	4251844	8767302328
2013	4052169	8157016197	2063	4255969	8780064047
2014	4056196	8169178744	2064	4260096	8792838144
2015	4060225	8181353375	2065	4264225	8805624625
2016	4064256	8193540096	2066	4268356	8818423496
2017	4068289	8205738913	2067	4272489	8831234763
2018	4072324	8217949832	2068	4276624	8844058432
2019	4076361	8230172859	2069	4280761	8856894509
2020	4080400	8242408000	2070	4284900	8869743000
2021	4084441	8254655261	2071	4289041	8882603911
2022	4088484	8266914648	2072	4293184	8895477248
2023	4092529	8279186167	2073	4297329	8908363017
2024	4096576	8291469824	2074	4301476	8921261224
2025	4100625	8303765625	2075	4305625	8934171875
2026	4104676	8316073576	2076	4309776	8947094976
2027	4108729	8328393683	2077	4313929	8960030533
2028	4112784	8340725952	2078	4318084	8972978552
2029	4116841	8353070389	2079	4322241	8985939039
2030	4120900	8365427000	2080	4326400	8998912000
2031	4124961	8377795791	2081	4330561	9011897441
2032	4129024	8390176768	2082	4334724	9024895368
2033	4133089	8402569937	2083	4338889	9037905787
2034	4137156	8414975304	2084	4343056	9050928704
2035	4141225	8427392875	2085	4347225	9063964125
2036	4145296	8439822656	2086	4351396	9077012056
2037	4149369	8452264653	2087	4355569	9090072503
2038	4153444	8464718872	2088	4359944	9103145472
2039	4157521	8477185319	2089	4363921	9116230969
2040	4161600	8489664000	2090	4368100	9129329000
2041	4165681	8502154921	2091	4372281	9142439571
2042	4169764	8514658088	2092	4376464	9155562688
2043	4173849	8527173507	2093	4380649	9168698357
2044	4177936	8539701184	2094	4384836	9181846584
2045	4182025	8552241125	2095	4389025	9195007375
2046	4186116	8564793336	2096	4393216	9208180736
2047	4190209	8577357823	2097	4397409	9221366673
2048	4194304	8589934592	2098	4401604	9234565192
2049	4198401	8602523649	2099	4405801	9247776299
2050	4202500	8615125000	2100	4410000	9261000000

R.	Sq.	Cu.	R.	Sq.	Cu.
2101	4414201	9274256301	2151	4626801	9952248951
2102	4418404	9287485208	2152	4631104	9966135808
2103	4422609	9300746727	2153	4635409	9980035577
2104	4426816	9314020864	2154	4639716	9993948264
2105	4431025	9327307625	2155	4644025	10007873875
2106	4435236	9340607016	2156	4648336	10021812416
2107	4439449	9353919043	2157	4652649	10035763893
2108	4443664	9367243712	2158	4656964	10049728312
2109	4447881	9380581029	2159	4661281	10063705679
2110	4452100	9393931000	2160	4665600	10077696000
2111	4456321	9407293631	2161	4669921	10091699281
2112	4460544	9420668928	2162	4674244	10105715528
2113	4464769	9434056897	2163	4678569	10119744747
2114	4468996	9447457544	2164	4682896	10133786944
2115	4473225	9460870875	2165	4687225	10147842125
2116	4477456	9474296896	2166	4691556	10161910296
2117	4481689	9487735613	2167	4695889	10175991463
2118	4485924	9501187032	2168	4700224	10190085632
2119	4490161	9514651159	2169	4704561	10204192809
2120	4494400	9528128000	2170	4708900	10218313000
2121	4498641	9541617561	2171	4713241	10232446211
2122	4502884	9555119848	2172	4717584	10246592448
2123	4507129	9568634867	2173	4721929	10260751717
2124	4511376	9582162624	2174	4726276	10274924024
2125	4515625	9595703125	2175	4730625	10289109375
2126	4519876	9609256376	2176	4734976	10303307776
2127	4524129	9622822383	2177	4739329	10317519233
2128	4528384	9636401152	2178	4743684	10331743752
2129	4532641	9649992689	2179	4748041	10345981339
2130	4536900	9663597000	2180	4752400	10360232000
2131	4541161	9677214091	2181	4756761	10374495741
2132	4545424	9690843968	2182	4761124	10388772568
2133	4549689	9704486637	2183	4765489	10403062487
2134	4553956	9718142104	2184	4769856	10417365504
2135	4558225	9731810375	2185	4774225	10431681625
2136	4562496	9745491456	2186	4778596	10446010856
2137	4566769	9759185353	2187	4782969	10460353203
2138	4571044	9772892072	2188	4787344	10474708672
2139	4575321	9786611619	2189	4791721	10489077269
2140	4579600	9800344000	2190	4796100	10503459000
2141	4583881	9814089221	2191	4800481	10517853871
2142	4588164	9827847288	2192	4804864	10532261888
2143	4592449	9841618207	2193	4809249	10546683057
2144	4596736	9855401984	2194	4813636	10561117384
2145	4601025	9869198625	2195	4818025	10575564875
2146	4605316	9883008136	2196	4822416	10590025536
2147	4609609	9896830523	2197	4826809	10604499373
2148	4613904	9910665792	2198	4831204	10618986392
2149	4618201	9924513949	2199	4835601	10633486599
2150	4622500	9938375000	2200	4840000	10648000000

R.	Sq.	Cu.
2201	4844401	10662526601
2202	4848804	10677066408
2203	4853209	10691619427
2204	4857616	10706185664
2205	4862025	10720765125
2206	4866436	10735357816
2207	4870849	10749963743
2208	4875264	10764582912
2209	4879681	10779215329
2210	4884100	10793861000
2211	4888521	10808519931
2212	4892944	10823192128
2213	4897369	10837877597
2214	4901796	10852576344
2215	4906225	10867288375
2216	4910656	10882013696
2217	4915089	10896752313
2218	4919524	10911504232
2219	4923961	10926269459
2220	4928400	10941048000
2221	4932841	10955839861
2222	4937284	10970645048
2223	4941729	10985463567
2224	4946176	11000295424
2225	4950625	11015140625
2226	4955076	11029999176
2227	4959529	11044871083
2228	4963984	11059756352
2229	4968441	11074654989
2230	4972900	11089567000
2231	4977361	11104492391
2232	4981824	11119431168
2233	4986289	11134383337
2234	4990756	11149348904
2235	4995225	11164327875
2236	4999696	11179320256
2237	5004169	11194326053
2238	5008644	11209345272
2239	5013121	11224377919
2240	5017600	11239424000
2241	5022081	11254483521
2242	5026564	11269556488
2243	5031049	11284642907
2244	5035536	11299742784
2245	5040025	11314856125
2246	5044516	11329982936
2247	5049009	11345123223
2248	5053504	11360276992
2249	5058001	11375444249
2250	5062500	11390625000

R.	Sq.	Cu.
2251	5067001	11405819251
2252	5071504	11421027008
2253	5076009	11436248277
2254	5080516	11451483064
2255	9085025	11466731375
2256	5089536	11481993216
2257	5094049	11497268593
2258	5098564	11512557512
2259	5103081	11527859979
2260	5107600	11543176000
2261	5112121	11558505581
2262	5116644	11573848728
2263	5121169	11589205447
2264	5125696	11604575744
2265	5130225	11619959625
2266	5134756	11635357096
2267	5139289	11650768163
2268	5143824	11666192832
2269	5148361	11681631109
2270	5152900	11697083000
2271	5157441	11712548511
2272	5161984	11728027648
2273	5166529	11743520417
2274	5171076	11759026824
2275	5175625	11774546875
2276	5180176	11790080576
2277	5184729	11805627933
2278	5189284	11821188952
2279	5193841	11836763639
2280	5198400	11852352000
2281	5202961	11867954041
2282	5207524	11883569768
2283	5212089	11899199187
2284	5216656	11914842304
2285	5221225	11930499125
2286	5225796	11946169656
2287	5230369	11961853903
2288	5234944	11977551872
2289	5239521	11993263569
2290	5244100	12008989000
2291	5248681	12024728171
2292	5253264	12040481088
2293	5257849	12056247757
2294	5262436	12072028184
2295	5267025	12087822375
2296	5271616	12103630336
2297	5276209	12119452073
2298	5280804	12135287592
2299	5285401	12151136899
2200	5290000	12167000000

R	Sq.	Cu.	R.	Sq.	Cu.
2301	5294601	12182876901	2351	5527201	12994449551
2302	5299204	12198767608	2352	5531904	13011038208
2303	5303809	12214672127	2353	5536609	13027640977
2304	5308416	12230590464	2354	5541316	13044257864
2305	5313025	12246522625	2355	5546025	13060888875
2306	5317636	12262468616	2356	5550736	13077534016
2307	5322249	12278428443	2357	5555449	13094193293
2308	5326864	12294402112	2358	5560164	13110866712
2309	5331481	12310389629	2359	5564881	13127554279
2310	5336100	12326391000	2360	5569600	13144256000
2311	5340721	12342406231	2361	5574321	13160971881
2312	5345344	12358435328	2362	5579044	13177701928
2313	5349969	12374478297	2363	5583769	13194446147
2314	5354596	12390535144	2364	5588496	13211204544
2315	5359225	12406605875	2365	5593225	13227977125
2316	5363856	12422690496	2366	5597956	13244763896
2317	5368489	12438789013	2367	5602689	13261564863
2318	5373124	12454901432	2368	5607424	13278380032
2319	5377761	12471027759	2369	5612161	13295209409
2320	5382400	12487168000	2370	5616900	13312053000
2321	5387041	12503322161	2371	5622641	13328910811
2322	5391684	12519490248	2372	5626384	13345782848
2323	5396329	12535672267	2373	5631129	13362669117
2324	5400976	12551868224	2374	5635876	13379569624
2325	5405625	12568078125	2375	5640625	13396484375
2326	5410276	12584301976	2376	5645376	13413413376
2327	5414929	12600539783	2377	5650129	13430356633
2328	5419584	12616791552	2378	5654884	13447314152
2329	5424241	12633057289	2379	5659641	13464285939
2330	5428900	12649337000	2380	5664400	13481272000
2331	5433561	12665630691	2381	5669161	13498272341
2332	5438224	12681938368	2382	5673924	13515286968
2333	5442889	12698260037	2383	5678689	13532315887
2334	5447556	12714595704	2384	5683456	13549359104
2335	5452225	12730945375	2385	5688225	13566416625
2336	5456896	12747309056	2386	5692996	13583488456
2337	5461569	12763686753	2387	5697769	13600574603
2338	5466244	12780078472	2388	5702544	13617675072
2339	5470921	12796484219	2389	5707321	13634789869
2340	5475600	12812904000	2390	5712100	13651919000
2341	5480281	12829337821	2391	5716881	13669062471
2342	5484964	12845785688	2392	5721664	13686220288
2343	5489649	12862247607	2393	5726449	13703392457
2344	5494336	12878723584	2394	5731236	13720578984
2345	5499025	12895213625	2395	5736025	13737779875
2346	5503716	12911717736	2396	5740816	13754995136
2347	5508409	12928235923	2397	5745609	13772224773
2348	5513104	12944768192	2398	5750404	13789468792
2349	5517801	12961314549	2399	5755201	13806727199
2350	5522500	12977875000	2400	5760000	13824000000

R	Sq.	Cu.
2401	5764801	13841287201
2402	5769604	13858588808
2403	5774409	13875904827
2404	5779216	13893235264
2405	5784025	13910580125
2406	5788836	13927939416
2407	5793649	13945313143
2408	5798464	13962701312
2409	5803281	13980103929
2410	5808100	13997521000
2411	5812921	14014952531
2412	5817744	14032398528
2413	5822569	14049858997
2414	5827396	14067333944
2415	5832225	14084823375
2416	5837056	14102327296
2417	5841889	14119845713
2418	5846724	14137378632
2419	5851561	14154926059
2420	5856400	14172488000
2421	5861241	14190064461
2422	5866084	14207655448
2423	5870929	14225260967
2424	5875776	14242881024
2425	5880625	14260515625
2426	5885476	14278164776
2427	5890329	14295828483
2428	5895184	14313506752
2429	5900041	14331199589
2430	5904900	14348907000
2431	5909761	14366628991
2432	5914624	14384365568
2433	5919489	14402116737
2434	5924356	14419882504
2435	5929225	14437662875
2436	5934096	14455457856
2437	5938969	14473267453
2438	5943844	14491091672
2439	5948721	14508930519
2440	5953600	14526784000
2441	5958481	14544652121
2442	5963364	14562534888
2443	5968249	14580432307
2444	5973136	14598344384
2445	5978025	14616271125
2446	5982916	14634212536
2447	5987809	14652168623
2448	5992704	14670139392
2449	5997601	14688124849
2450	6002500	14706125000
2451	6007401	14724139851
2452	6012304	14742169408
2453	6017209	14760213677
2454	6022116	14778272664
2455	6027025	14796346375
2456	6031936	14814434816
2457	6036849	14832537993
2458	6041764	14850655912
2459	6046681	14868788579
2460	6051600	14886936000
2461	6056521	14905098181
2462	6061444	14923275128
2463	6066369	14941466847
2464	6071296	14959673344
2465	6076225	14977894625
2466	6081156	14996130696
2467	6086089	15014381563
2468	6091024	15032647232
2469	6095961	15050927709
2470	6100900	15069223000
2471	6105841	15087533111
2472	6110784	15105858048
2473	6115729	15124197817
2474	6120676	15142552424
2475	6125625	15160921875
2476	6130576	15179306176
2477	6135529	15197705333
2478	6140484	15216119352
2479	6145441	15234548239
2480	6150400	15252992000
2481	6155361	15271450641
2482	6160324	15289924168
2483	6165289	15308412587
2484	6170256	15326915904
2485	6175225	15345434125
2486	6180196	15363967256
2487	6185169	15382515303
2488	6190144	15401078272
2489	6195121	15419656169
2490	6200100	15438249000
2491	6205081	15456856771
2492	6210064	15475479488
2493	6215049	15494117157
2494	6220036	15512769784
2495	6225025	15531437375
2496	6230016	15550119936
2497	6235009	15568817473
2498	6240004	15587529992
2499	6245001	15606257499
2500	6250000	15625000000

R.	Sq.	Cu.	R.	Sq.	Cu.
2501	6255001	15643757501	2551	6507601	16600890151
2502	6260004	15662530008	2552	6512704	16620420608
2503	6265009	15681317527	2553	6517809	16639966377
2504	6270016	15700120064	2554	6522916	16659527464
2505	6275025	15718937625	2555	6528025	16679103875
2506	6280036	15737770216	2556	6533136	16698695616
2507	6285049	15756617843	2557	6538249	16718302693
2508	6290064	15775480512	2558	6543364	16737925112
2509	6295081	15794358229	2559	6548481	16757562879
2510	6300100	15813251000	2560	6553600	16777216000
2511	6305121	15832158831	2561	6558721	16796884481
2512	6310144	15851081728	2562	6563844	16816568328
2513	6315169	15870019697	2563	6568969	16836267547
2514	6320196	15888972744	2564	6574096	16855982144
2515	6325225	15907940875	2565	6579225	16875712125
2516	6330256	15926924096	2566	6584356	16895457496
2517	6335289	15945922413	2567	6589489	16915218263
2518	6340324	15964935832	2568	6594624	16934994432
2519	6345361	15983964359	2569	6599761	16954786009
2520	6350400	16003008000	2570	6604900	16974593000
2521	6355441	16022066761	2571	6610041	16994415411
2522	6360484	16041140648	2572	6615184	17014253248
2523	6365529	16060229667	2573	6620329	17034106517
2524	6370576	16079333824	2574	6625476	17053975224
2525	6375625	16098453125	2575	6630625	17073859375
2526	6380676	16117587576	2576	6635776	17093758976
2527	6385729	16136737183	2577	6640929	17113674033
2528	6390784	16155901952	2578	6646084	17133604552
2529	6395841	16175081889	2579	6651241	17153550539
2530	6400900	16194277000	2580	6656400	17173512000
2531	6405961	16213487291	2581	6661561	17193488941
2532	6411024	16232712768	2582	6666724	17213481368
2533	6416089	16251953437	2583	6671889	17233489287
2534	6420156	16271209304	2584	6677056	17253512704
2535	6426225	16290480375	2585	6682225	17273551625
2536	6430296	16309766656	2586	6687396	17293606056
2537	6436369	16329068153	2587	6692569	17313676003
2538	6440444	16348384872	2588	6697744	17333761472
2539	6446521	16367716819	2589	6702921	17353862469
2540	6451600	16387064000	2590	6708100	17373979000
2541	6456681	16406426421	2591	6713281	17394111071
2542	6461764	16425804088	2592	6718464	17414258688
2543	6466849	16445197007	2593	6723649	17434421857
2544	6471936	16464605184	2594	6728836	17454600584
2545	6477025	16484028625	2595	6734025	17474794875
2546	6482116	16503467336	2596	6739216	17495004736
2547	6487209	16522921323	2597	6744409	17515230173
2548	6492304	16542390592	2598	6749604	17535471192
2549	6497401	16561875149	2599	6754801	17555727799
2550	6502500	16581375000	2600	6760000	17576000000

R	Sq.	Cu.
2601	6765201	17596282801
2602	6770404	17616591208
2603	6775609	17636910227
2604	6780816	17657244864
2605	6786025	17677595125
2606	6791236	17697961016
2607	6796449	17718343543
2608	6801664	17738739712
2609	6806881	17759152529
2610	6812100	17779581000
2611	6817321	17800025131
2612	6822544	17820484928
2613	6827769	17840960397
2614	6832996	17861451544
2615	6838225	16881958375
2616	6843456	17902480896
2617	6848689	17923019113
2618	6853924	17943573032
2619	6859161	17964142659
2620	6864400	17984728000
2621	6869641	18005329061
2622	6874884	18025945848
2623	6880129	18046578367
2624	6885376	18067226624
2625	6890625	18087890625
2626	6895876	18108570376
2627	6901129	18129265883
2628	6906384	18149977152
2629	6911641	18170704189
2630	6916900	18191447000
2631	6922161	18212205591
2632	6927424	18232979968
2633	6932689	18253770137
2634	6937956	18274576104
2635	6943225	18295397875
2636	6948496	18316235456
2637	6953769	18337088853
2638	6959044	18357958072
2639	6964321	18378843119
2640	6969600	18399744000
2641	6974881	18420660721
2642	6980164	18441593288
2643	6985449	18462541707
2644	6990736	18483505984
2645	6996025	18504486125
2646	7001316	18525482136
2647	7006609	18546494023
2648	7011904	18567521792
2649	7017201	18588565449
2650	7022500	18609625000

R.	Sq.	Cu.
2651	7027801	18630700451
2652	7033104	18651791808
2653	7038409	18672899077
2654	7043716	18694022264
2655	7049025	18715161375
2656	7054336	18736316416
2657	7059649	18757487393
2658	7064964	18778674312
2659	7070281	18799877179
2660	7075600	18821096000
2661	7080921	18842330781
2662	7086244	18863581528
2663	7091569	18884848247
2664	7096896	18906130944
2665	7102225	18927429625
2666	7107556	18948744296
2667	7112889	18970074963
2668	7118224	18991421632
2669	7123561	19012784309
2670	7128900	19034163000
2671	7134241	19055557711
2672	7139584	19076968448
2673	7144929	19098395217
2674	7150276	19119838024
2675	7155625	19141296875
2676	7160976	19162771776
2677	7166329	19184262733
2678	7171684	19205769752
2679	7177041	19227292839
2680	7182400	19248832000
2681	7187761	19270387241
2682	7193124	19291958568
2683	7198489	19313545987
2684	7203856	19335149504
2685	7209225	19356769125
2686	7214596	19378404856
2687	7219969	19400056703
2688	7225344	19421724672
2689	7230721	19443408769
2690	7236100	19465109000
2691	7241481	19486825371
2692	7246864	19508557888
2693	7252249	19530306557
2694	7257636	19552071384
2695	7263025	19573852375
2696	7268416	19595649536
2697	7273809	19617462873
2698	7279204	19639292392
2699	7284601	19661138099
2700	7290000	19683000000

R.	Sq.	Cu.
2701	7295401	19704878101
2702	7300804	19726772408
2703	7306209	19748682927
2704	7311616	19770609664
2705	7317025	19792552625
2706	7322436	19814511816
2707	7327849	19836487243
2708	7333264	19858478912
2709	7338081	19880486829
2710	7344100	19902511000
2711	7349521	19924551431
2712	7354944	19946608128
2713	7360369	19968681097
2714	7365796	19990770344
2715	7371225	20012875875
2716	7376656	20034997696
2717	7382089	20057135813
2718	7387524	20079290232
2719	7392961	20101460959
2720	7398400	20123648000
2721	7403841	20145851361
2722	7409284	20168071048
2723	7414729	20190307067
2724	7420176	20212559424
2725	7425625	20234828125
2726	7431076	20257113176
2727	7436529	20279414583
2728	7441984	20301732352
2729	7447441	20324066489
2730	7452900	20346417000
2731	7458361	20368783891
2732	7463824	20391167168
2733	7469289	20413566837
2734	7474756	20435983904
2735	7480225	20458415375
2736	7485696	20480864256
2737	7491169	20503329553
2738	7496644	20525811272
2739	7502121	20548309419
2740	7507600	20570824000
2741	7513081	20593355021
2742	7518564	20615902488
2743	7524049	20638466407
2744	7529536	20661046784
2745	7535025	20683643625
2746	7540516	20706256936
2747	7546009	20728886723
2748	7551504	20751532992
2749	7557001	20774195749
2750	7562500	20796875000
2751	7568001	20819570751
2752	7573504	20842283008
2753	7579009	20865011777
2754	7584516	20887757064
2755	7590025	20910518875
2756	7595536	20933297216
2757	7601049	20956092093
2758	7606564	20978903512
2759	7612081	21001731479
2760	7617600	21024576000
2761	7623121	21047437081
2762	7628644	21070314728
2763	7634169	21093298947
2764	7639696	21116119744
2765	7645225	21139047125
2766	7650756	21161991096
2767	7656289	21184951663
2768	7661824	21207928832
2769	7667361	21230922609
2770	7672900	21253933000
2771	7678441	21276960011
2772	7683984	21300003648
2773	7689529	21323063917
2774	7695076	21346140824
2775	7700625	21369234375
2776	7706176	21392344576
2777	7711729	21415471433
2778	7717284	21438614952
2779	7722841	21461775139
2780	7728400	21484952000
2781	7733961	21508145541
2782	7739524	21531355768
2783	7745089	21554582687
2784	7750656	21577826304
2785	7756225	21601086625
2786	7761796	21624363656
2787	7767369	21647657403
2788	7772944	21670967872
2789	7778521	21694295069
2790	7784100	21717639000
2791	7789681	21740999671
2792	7795264	21764377088
2793	7800849	21787771257
2794	7806436	21811182184
2795	7812025	21834609875
2796	7817616	21858054336
2797	7823209	21881515573
2798	7828804	21904993592
2799	7834401	21928488399
2800	7840000	21952000000

R.	Sq.	Cu.	R.	Sq.	Cu.
2801	7845601	21975528401	2851	8128201	23173501051
2802	7851204	21999073608	2852	8133904	23197894208
2803	7856809	22022635627	2853	8139609	23222304477
2804	7862416	22046214464	2854	8145316	23246731864
2805	7868025	22069810125	2855	8151025	23271176375
2806	7873636	22093422616	2856	8156736	23295638016
2807	7879249	22117051943	2857	8162449	23320116793
2808	7884864	22140698112	2858	8168164	23344612712
2809	7890481	22164361129	2859	8173881	23369125779
2810	7896100	22188041000	2860	8179600	23393656000
2811	7901721	22211737731	2861	8185321	23418203381
2812	7907344	22235451328	2862	8191044	23442767928
2813	7912969	22259181797	2863	8196769	23467349647
2814	7918596	22282929144	2864	8202496	23491948544
2815	7924225	22306693375	2865	8208225	23516564625
2816	7929856	22330474496	2866	8213956	23541197896
2817	7935489	22354272513	2867	8219689	23565848363
2818	7941124	22378087432	2868	8225424	23590516032
2819	7946761	22401919259	2869	8231161	23615200909
2820	7952400	22425768000	2870	8236900	23639903000
2821	7958041	22449633661	2871	8242641	23664622311
2822	7963684	22473516248	2872	8248384	23689358848
2823	7969329	22497415767	2873	8254129	23714112617
2824	7974976	22521332224	2874	8259876	23738883624
2825	7980625	22545265625	2875	8265625	23763671875
2826	7986276	22569215976	2876	8271376	23788477376
2827	7991929	22593183283	2877	8277129	23813300133
2828	7997584	22617167552	2878	8282884	23838140152
2829	8003241	22641168789	2879	8288641	23862997439
2830	8008900	22665187000	2880	8294400	23887872000
2831	8014561	22689222191	2881	8300161	23912763841
2832	8020224	22713274368	2882	8305924	23937672968
2833	8025889	22737343537	2883	8311689	23962599387
2834	8031556	22761429704	2884	8317456	23987543104
2835	8037225	22785532875	2885	8323225	24012504125
2836	8042896	22809653056	2886	8328996	24037482456
2837	8048569	22833790253	2887	8334769	24062478103
2838	8054244	22857944472	2888	8340544	24087491072
2839	8059921	22882115719	2889	8346321	24112521369
2840	8065600	22906304000	2890	8352100	24137569000
2841	8071281	22930509321	2891	8357881	24162633971
2842	8076964	22954731688	2892	8363664	24187716288
2843	8082649	22978971107	2893	8369449	24212815957
2844	8088336	23003227584	2894	8375236	24237932984
2845	8094025	23027501125	2895	8381025	24263067375
2846	8099716	23051791736	2896	8386816	24288219136
2847	8105409	23076099423	2897	8392609	24313388273
2848	8111104	23100424192	2898	8398404	24338574792
2849	8116801	23124766049	2899	8404201	24363778699
2850	8122500	23149125000	2900	8410000	24389000000

R.	Sq.	Cu.
2901	8415801	24414238701
2902	8421604	24439494808
2903	8427409	24464768327
2904	8433216	24490059264
2905	8439025	24515367625
2906	8444836	24540693416
2907	8450649	24566036643
2908	8456464	24591397312
2909	8462281	24616775429
2910	8468100	24642171000
2911	8473921	24667584031
2912	8479744	24693014528
2913	8485569	24718462497
2914	8491396	24743927944
2915	8497225	24769410875
2916	8503056	24794911296
2917	8508889	24820429213
2918	8514724	24845964632
2919	8520561	24871517559
2920	8526400	24897088000
2921	8532241	24922675961
2922	8538084	24948281448
2923	8543929	24973904467
2924	8549776	24999545024
2925	8555625	25025203125
2926	8561476	25050878776
2927	8567329	25076571983
2928	8573184	25102282752
2929	8579041	25128011089
2930	8584900	25153757000
2931	8590761	25179580491
2932	8596624	25205301568
2933	8602489	25231100237
2934	8608356	25256916504
2935	8614225	25282750375
2936	8620096	25308601856
2937	8625969	25334470953
2938	8631844	25360357672
2939	8637721	25386262019
2940	8643600	25412184000
2941	8649481	25438123621
2942	8655764	25464080888
2943	8661249	25490055807
2944	8667136	25516048384
2945	8673025	25542058625
2946	8678916	25568086536
2947	8684809	25594132123
2948	8690704	25620195392
2949	8696601	25646276349
2950	8702500	25672375000
2951	8708401	25698491351
2952	8714304	25724625408
2953	8720209	25750777177
2954	8726116	25776946664
2955	8732025	25803133875
2956	8737936	25829338816
2957	8743849	25855561493
2958	8749764	25881801912
2959	8755681	25908060079
2960	8761600	25934336000
2961	8767521	25960629681
2962	8773444	25986941128
2963	8779369	26013270347
2964	8785296	26039617344
2965	8791225	26065982125
2966	8797156	26092364696
2967	8803089	26118765063
2968	8809024	26145183232
2969	8814961	28171619209
2970	8820900	26198073000
2971	8826841	26224544611
2972	8832784	26251034048
2973	8838729	26577541317
2974	8844676	26304066424
2975	8850625	26330609375
2976	8856576	26357170176
2977	8862529	26383748833
2978	8868484	26410345352
2979	8874441	26436959739
2980	8880400	26463592000
2981	8886361	26490242141
2982	8892324	26516910168
2983	8898289	26543596087
2984	8904256	26570299904
2985	8910225	26597021625
2986	8916196	26623761256
2987	8922169	26650518803
2988	8928144	26677294272
2989	8934121	26704087669
2990	8940100	26730899000
2991	8946081	26757728271
2992	8952064	26784575488
2993	8958049	26811440657
2994	8964036	26838323784
2995	8970025	26865224875
2996	8976016	26892143936
2997	8982009	26919080973
2998	8988004	26946035992
2999	8994001	26973008999
2000	9000000	27000000000

R.	Sq.	Cu.	R.	Sq.	Cu.
3001	9006001	27027009001	3051	9308601	28400541651
3002	9012004	27054036008	3052	9314704	28428476608
3003	9018009	27081081027	3053	9320809	28456429877
3004	9024016	27108144064	3054	9326916	28484401464
3005	9030025	27135225125	3055	9333025	28512391375
3006	9036036	27162324216	3056	9339136	28540399616
3007	9042049	27189441343	3057	9345249	28568426193
3008	9048064	27216576512	3058	9351364	28596471112
3009	9054081	27243729729	3059	9357481	28624534379
3010	9060100	27270901000	3060	9363600	28652616000
3011	9066121	27298090331	3061	9369721	28680715981
3012	9072144	27325297728	3062	9375844	28708834328
3013	9087196	27352523197	3063	9381969	28736971047
3014	9084196	27379766744	3064	9388096	28765126144
3015	9090225	27407028375	3065	9394225	28793299625
3016	9096256	27434308096	3066	9400356	28821491496
3017	9102289	27461605913	3067	9406489	28849701763
3018	9108324	27488921832	3068	9412624	28877930432
3019	9114361	27516255859	3069	9418761	28906177509
3020	9120400	27543608000	3070	9424900	28934443000
3021	9126441	27570978261	3071	9431041	28962726911
3022	9132484	27598366648	3072	9437184	28991029248
3023	9138529	27625773167	3073	9443329	29019350017
3024	9144576	27653197824	3074	9449476	29047689224
3025	9150625	27680640625	3075	9455625	29076046875
3026	9156676	27708101576	3075	9461776	29104422976
3027	9162729	27735580683	3077	9467929	29132817533
3028	9168784	27763077952	3078	9474084	29161230552
3029	9174841	27790593389	3079	9480241	29189662039
3030	9180900	27818127000	3080	9486400	29218112000
3031	9186961	27845678791	3081	9492561	29246580441
3032	9193024	27873248768	3082	9498724	29275067368
3033	9199089	27900836937	3083	9504889	29303572787
3034	9205156	27928443304	3084	9511056	29332096704
3035	9211225	27956067875	3085	9517225	29360639125
3036	9217296	27983710656	3086	9523396	29389200056
3037	9223369	28011371653	3087	9529569	29417779503
3038	9229444	28039050872	3088	9535744	29446377472
3039	9235521	28066748319	3089	9541921	29474993969
3040	9241600	28094464000	3090	9548100	29503629000
3041	9247681	28122197921	3091	9554281	29532282571
3042	9253764	28149950088	3092	9560464	29560954688
3043	9259849	28177720507	3093	9566649	29589645357
3044	9265936	28205509184	3094	9572836	29618354584
3045	9272025	28233316125	3095	9579025	29647082375
3046	9278116	28261141336	3096	9585216	29675828736
3047	9284209	28288984823	3097	9591409	29704593673
3048	9290304	28316846592	3098	9597604	29733377192
3049	9296401	28344726649	3099	9603801	29762179299
3050	9302500	28372625000	3100	9610000	29791000000

R.	Sq.	Cu.
3101	9616201	29819839301
3102	9622404	29848697208
3103	9628609	29877573727
3104	9634816	29906468864
3105	9641025	29935382625
3106	9647236	29964315016
3107	9653449	29993266043
3108	9659664	30022235712
3109	9665881	30051224029
3110	9672100	30080231000
3111	9678321	30109256631
3112	9684544	30138300928
3113	9690769	30167363897
3114	9696996	30196445544
3115	9703225	30225545875
3116	9709456	30254664896
3117	9715689	30283802613
3118	9721924	30312959032
3119	9728161	30342134159
3120	9734400	30371328000
3121	9740641	30400540561
3122	9746884	30429771848
3123	9753129	30459021867
3124	9759376	30488290624
3125	9765625	30517578125
3126	9771876	30546884376
3127	9778129	30576209383
3128	9784384	30605553152
3129	9790641	30634915689
3130	9796900	30664297000
3131	9803161	30693697091
3132	9809424	30723115968
3133	9815689	30752553637
3134	9821956	30782010104
3135	9828225	30811485375
3136	9834496	30840979456
3137	9840769	30870492353
3138	9847044	30900024072
3139	9853321	30929574619
3140	9859600	30959144000
3141	9865881	30988732221
3142	9872164	31018339288
3143	9878449	31047965207
3144	9884736	31077609984
3145	9891025	31107273625
3146	9897316	31136956136
3147	9903609	31166657523
3148	9909904	31196377792
3149	9916201	31226116949
3150	9922500	31255875000

R.	Sq.	Cu.
3151	9928801	31285651951
3152	9935104	31315447808
3153	9941409	31345262577
3154	9947716	31375096264
3155	9954025	31404948875
3156	9960336	31434820416
3157	9966649	31464710893
3158	9972964	31494620312
3159	9979281	31524548679
3160	9985600	31554496000
3161	9991921	31584462281
3162	9998244	31614447528
3163	10004569	31644451747
3164	10010896	31674474944
3165	10017225	31704517125
3166	10023556	31734578296
3167	10029889	31764658463
3168	10036224	31794757632
3169	10042561	31824875809
3170	10048900	31855013000
3171	10055241	31885169211
3172	10061584	31915344448
3173	10067929	31945538717
3174	10074276	31975752024
3175	10080625	32005984375
3175	10086976	32036235776
3177	10093329	32066506233
3178	10099684	32096795752
3179	10106041	32127104339
3180	10112400	32157432000
3181	10118761	32187778741
3182	10125124	32218144568
3183	10131489	32248529487
3184	10137856	32278933504
3185	10144225	32309356625
3186	10150596	32339798856
3187	10156969	32370260203
3188	10163344	32400740672
3189	10169721	32431240269
3190	10176100	32461759000
3191	10182481	32492296871
3192	10188864	32522853888
3193	10195249	32553430057
3194	10201636	32584025384
3195	10208025	32614639875
3196	10214416	32645273536
3197	10220809	32675926373
3198	10227204	32706598392
3199	10233601	32737289599
3200	10240000	32768000000

R.	Sq.	Cu.
3201	10246401	32798729601
3202	10252804	32829478408
3203	10259209	32860246427
3204	10265616	32891033664
3205	10272025	32921840125
3206	10278436	32952665816
3207	10284849	32983510743
3208	10291264	33014374912
3209	10297681	33045258329
3210	10304100	33076161000
3211	10310521	33107082931
3212	10316944	33138024128
3213	10323369	33168984597
3214	10329796	33199964344
3215	10336225	33230963375
3216	10342656	33261981696
3217	10349089	33293019313
3218	10355524	33324076232
3219	10361961	33355152459
3220	10368400	33386248000
3221	10374841	33417362861
3222	10381284	33448497048
3223	10387729	33479650567
3224	10394176	33510823424
3225	10400625	33542015625
3226	10407076	33573227176
3227	10413529	33604458083
3228	10419984	33635708352
3229	10426441	33666977989
3230	10432900	33698267000
3231	10439361	33729575391
3232	10445824	33760903168
3233	10452289	33792250337
3234	10458756	33823616904
3235	10465225	33855002875
3236	10471696	33886408256
3237	10478169	33917833053
3238	10484644	33949277272
3239	10491121	33980740919
3240	10497600	34012224000
3241	10504081	34043726521
3242	10510564	34075248488
3243	10517049	34106789907
3244	10523536	34138350784
3245	10530025	34169931125
3246	10536516	34201530936
3247	10543009	34233150223
3248	10549504	34264788992
3249	10556001	34296447249
3250	10562500	34328125000

R.	Sq.	Cu.
3251	10569001	34359822251
3252	10575504	34391539008
3253	10582009	34423275277
3254	10588516	34455031064
3255	10595025	34486806375
3256	10601536	34518601216
3257	10608049	34550415593
3258	10614564	34582249512
3259	10621081	34614102979
3260	10627600	34645976000
3261	10634121	34677868581
3262	10640644	34709780728
3263	10647169	34741712447
3264	10653696	34773663744
3265	10660225	34805634625
3266	10666756	34837625096
3267	10673289	34869635163
3268	10679824	34901664832
3269	10686361	34933714109
3270	10692900	34965783000
3271	10699441	34997871511
3272	10705984	35029979648
3273	10712529	35062107417
3274	10719076	35094254824
3275	10725625	35126421875
3276	10732176	35158608576
3277	10738729	35190814933
3278	10745284	35223040952
3279	10751841	35255286639
3280	10758400	35287552000
3281	10764961	35319837041
3282	10771524	35352141768
3283	10778089	35384466187
3284	10784656	35416810304
3285	10791225	35449174125
3286	10797796	35481557656
3287	10804369	35513960903
3288	10810944	35546383872
3289	10817521	35578826569
3290	10824100	35611289000
3291	10830681	35643771171
3292	10837264	35676273088
3293	10843849	35708794757
3294	10850436	35741336184
3295	10857025	35773897375
3296	10863616	35806478336
3297	10870209	35839079073
3298	10876804	35871699592
3299	10883401	35904339899
3300	10890000	35937000000

R.	Sq.	Cu.
3301	10896601	35969679901
3302	10903204	36002379608
3303	10909809	36035099127
3304	10916416	36067838464
3305	10923025	36100597625
3306	10929636	36133376616
3307	10936249	36166175443
3308	10942864	36198994112
3309	10949481	36231832629
3310	10956100	36264691000
3311	10962721	36297569231
3312	10969344	36330467328
3313	10975969	36363385297
3314	10982596	36396323144
3315	10989225	36429280875
3316	10995856	36462258496
3317	11002489	36495256013
3318	11009124	36528273432
3319	11015761	36561310759
3320	11022400	36594368000
3321	11029041	36627445161
3322	11035684	36660542248
3323	11042329	36693659267
3324	11048976	36726796224
3325	11055625	36759953125
3326	11062276	36793129976
3327	11068929	36826326783
3328	11075584	36859543552
3329	11082241	36892780289
3330	11088900	36926037000
3331	11095561	36959313691
3332	11102224	36992610368
3333	11108889	37025927037
3334	11115556	37059263704
3335	11122225	37092620375
3336	11128896	37125997056
3337	11135569	37159393753
3338	11142244	37192810472
3339	11148921	37226247219
3340	11155600	37259704000
3341	11162281	37293180821
3342	11168964	37326677688
3343	11175649	37360194607
3344	11182336	37393731584
3345	11189025	37427288625
3346	11195716	37460865736
3347	11202409	37494462923
3348	11209104	37528080192
3349	11215801	37561717549
3350	11222500	37595375000

R.	Sq.	Cu.
3351	11229201	37629052551
3352	11235904	37662750208
3353	11242609	37696467977
3354	11249316	37730205864
3355	11256025	37763963875
3356	11262736	37797742016
3357	11269459	37831540293
3358	11276164	37865358712
3359	11282881	37899197279
3360	11289600	37933056000
3361	11296321	37966934881
3362	11303044	38000833928
3363	11309769	38034753147
3364	11316496	38068692544
3365	11323225	38102652125
3366	11329956	38136631896
3367	11336689	38170631863
3368	11343424	38204652032
3369	11350161	38238692409
3370	11356900	38272753000
3371	11363641	38306833811
3372	11370384	38340934848
3373	11377129	38375056117
3374	11383876	38409197624
3375	11390625	38443359375
3376	11397376	38477541376
3377	11404129	38511743633
3378	11410884	38545966152
3379	11417641	38580208939
3380	11424400	38614472000
3381	11431161	38648755341
3382	11437924	38683058968
3383	11444689	38717382887
3384	11451456	38751727104
3385	11458225	38786091625
3386	11464996	38820476456
3387	11471769	38854881603
3388	11478544	38889307072
3389	11485321	38923752869
3390	11492100	38958219000
3391	11498881	38992705471
3392	11505664	39027212288
3393	11512449	39061739457
3394	11519236	39096286984
3395	11526025	39130854875
3396	11532816	39165443136
3397	11539609	39200051773
3398	11546404	39234680792
3399	11553201	39269330199
3400	11560000	39304000000

R.	Sq.	Cu.
3401	11566801	39338690201
3402	11573604	39373400808
3403	11580409	39408131827
3404	11587216	39442883264
3405	11594025	39477655125
3406	11600836	39512447416
3407	11607649	39547260143
3408	11614464	39582093312
3409	11621281	39616946929
3410	11628100	39651821000
3411	11634921	39686715531
3412	11641744	39721630528
3413	11648569	39756565907
3414	11655396	39791521944
3415	11662225	39826498375
3416	11669056	39861495296
3417	11675889	39896512713
3418	11682724	39931550632
3419	11689561	39966609059
3420	11696400	40001688000
3421	11703241	40036787461
3422	11710084	40071907448
3423	11716929	40107047967
3424	11723776	40142209024
3425	11730625	40177390625
3426	11737476	40212592776
3427	11744329	40247815483
3428	11751184	40283058752
3429	11758041	40318322589
3430	11764900	40353607000
3431	11771761	40388911991
3432	11778624	40424237568
3433	11785489	40459583737
3434	11792356	40494950504
3435	11799225	40530337875
3436	11806096	40565745856
3437	11812969	40601174453
3438	11819844	40636623672
3439	11826721	40672093519
3440	11833600	40707584000
3441	11840481	40743095121
3442	11847364	40778626888
3443	11854249	40814179307
3444	11861136	40849752384
3445	11868025	40885346125
3446	11874916	40920960536
3447	11881809	40956595623
3448	11888704	40992251392
3449	11895601	41027927849
3450	11902500	41063625000

R.	Sq.	Cu.
3451	11909401	41099342851
3452	11916304	41135081408
3453	11923209	41170840677
3454	11930116	41206620664
3455	11937025	41242421375
3456	11943936	41278242816
3457	11950849	41314084993
3458	11957764	41349947912
3459	11964681	41385831579
3460	11971600	41421736000
3461	11978521	41457661181
3462	11985444	41493607128
3463	11992369	41529573847
3464	11999296	41565561344
3465	12006225	41601569625
3466	12013156	41637598696
3467	12020089	41673648563
3468	12027024	41709719232
3469	12033961	41745810709
3470	12040900	41781923000
3471	12047841	41818056111
3472	12054784	41854210048
3473	12061729	41890384817
3474	12068676	41926580424
3475	12075625	41962796875
3475	12082576	41999034176
3477	12089529	42035292333
3478	12096484	42071571352
3479	12103441	42107871239
3480	12110400	42144192000
3481	12117361	42180533641
3482	12124324	42216896168
3483	12131289	42253279587
3484	12138256	42289683904
3485	12145225	42326109125
3486	12152196	42362555256
3487	12159169	42399022303
3488	12166144	42435510272
3489	12173121	42472019169
3490	12180100	42508549000
3491	12187081	42545099771
3492	12194064	42581671488
3493	12201049	42618264157
3494	12208036	42654877784
3495	12215025	42691512375
3496	12222016	42728167936
3497	12229009	42764844473
3498	12236004	42801541992
3499	12243001	42838260499
3500	12250000	42875000000

R.	Sq.	Cu.
3501	12257001	42911760501
3502	12264004	42948542008
3503	12271009	42985344527
3504	12278016	43022168064
3505	12285025	43059012625
3506	12292036	43095878216
3507	12299049	43132764843
3508	12306064	43169672512
3509	12313081	43206601229
3510	12320100	43243551000
3511	12327121	43280521831
3512	12334144	43317513728
3513	12341169	43354526697
3514	12348196	43391560744
3515	12355225	43428615875
3516	12362256	43465692096
3517	12369289	43502789413
3518	12376324	43539907832
3519	12383361	43577047359
3520	12390400	43614208000
3521	12397441	43651389761
3522	12404484	43688592648
3523	12411529	43725816667
3524	12418576	43763061824
3525	12425625	43800328125
3526	12432676	43837615576
3527	12439729	43874924183
3528	12446784	43912253952
3529	12453841	43949604889
3530	12460900	43986977000
3531	12467961	44024370291
3532	12475024	44061784768
3533	12482089	44099220437
3534	12489156	44136677304
3535	12406225	44174155375
3536	12503296	44211654656
3537	12510369	44249175153
3538	12517444	44286716872
3539	12524521	44324279819
3540	12531600	44361864000
3541	12538681	44399469421
3542	12545764	44437096088
3543	12552849	44474744007
3544	12559936	44512413184
3545	12567025	44550103625
3546	12574116	44587815336
3547	12581209	44625548323
3548	12588304	44663302592
3549	12595401	44701078149
3550	12602500	44738875000

R.	Sq.	Cu.
3551	12609601	44776693151
3552	12616704	44814532608
3553	12623809	44852393377
3554	12630916	44890275464
3555	12638025	44928178875
3556	12645136	44966103616
3557	12652249	45004049693
3558	12659364	45042017112
3559	12666481	45080005879
3560	12673600	45118016000
3561	12680721	45156047481
3562	12687844	45194100328
3563	12694969	45232174547
3564	12702096	45270270144
3565	12709225	45308387125
3566	12716356	45346525496
3567	12723489	45384685263
3568	12730624	45422866432
3569	12737761	45461069009
3570	12744900	45499293000
3571	12752041	45537538411
3572	12759184	45575805248
3573	12766329	45614093517
3574	12773476	45652403224
3575	12780625	45690734375
3576	12787776	45729086976
3577	12794929	45767461033
3578	12802084	45805856552
3579	12809241	45844273539
3580	12816400	45882712000
3581	12823561	45921171941
3582	12830724	45959653368
3583	12837889	45998156287
3584	12845056	46036680704
3585	12852225	46075226625
3586	12859396	46113794056
3587	12866569	46152383003
3588	12873744	46190993472
3589	12880921	46229625469
3590	12888100	46268279000
3591	12895281	46306954071
3592	12902465	46345650688
3593	12909649	46384368857
3594	12916836	46423108584
3595	12924025	46461869875
3596	12931216	46500652736
3597	12938409	46539457173
3598	12945604	46578283192
3599	12952801	46617130799
3600	12960000	46656000000

R.	Sq.	Cu.
3601	12967201	46694890801
3602	12974404	46733803208
3603	12981609	46772737227
3604	12988816	46811692864
3605	12996025	46850670125
3606	13003236	46889669016
3607	13010449	46928689543
3608	13017664	46967731712
3609	13024881	47006795529
3610	13032100	47045881000
3611	13039321	47084988131
3612	13046544	47124116928
3613	13053769	47163267397
3614	13060996	47202439544
3615	13068225	47241633375
3616	13075456	47280848896
3617	13082689	47320086113
3618	13089924	47359345032
3619	13097161	47398625659
3620	13104400	47437928000
3621	13111641	47477252061
3622	13118884	47516597848
3623	13126129	47555965367
3624	13133376	47595354624
3625	13140625	47634765625
3626	13147876	47674198376
3627	13155129	47713652883
3628	13162384	47753129152
3629	13169641	47792627189
3630	13176900	47832147000
3631	13184161	47871688591
3632	13191424	47911251968
3633	13198689	47950837137
3634	13205956	47990444104
3635	13213225	48030072875
3636	13220496	48069723456
3637	13227769	48109395853
3638	13235044	48149090072
3639	13242321	48188806119
3640	13249600	48228544000
3641	13256881	48268303721
3642	13264164	48308085288
3643	13271449	48347888707
3644	13278736	48387713984
3645	13286025	48427561125
3646	13293316	48467430136
3647	13300609	48507321023
3648	13307904	48547233792
3649	13315201	48587168449
3650	13322500	48627125000

R.	Sq.	Cu.
3651	13329801	48667103451
3652	13337104	48707103808
3653	13344409	48747126077
3654	13351716	48787170264
3655	13359025	48827236375
3656	13366336	48867324416
3657	13373649	48907434393
3658	13380964	48947566312
3659	13388281	48987720179
3660	13395600	49027896000
3661	13402921	49068093781
3662	13410244	49108313528
3663	13417569	49148555247
3664	13424896	49188818944
3665	13432225	49229104625
3666	13439556	49269412296
3667	13446889	49309741963
3668	13454224	49350093632
3669	13461561	49390467309
3670	13468900	49430863000
3671	13476241	49471280711
3672	13483584	49511720448
3673	13490929	49552182217
3674	13498276	49592666024
3675	13505625	49633171875
3676	13512976	49673699776
3677	13520329	49714249733
3678	13527684	49754821752
3679	13535041	49795415839
3680	13542400	49836032000
3681	13549761	49876670241
3682	13557124	49917330566
3683	13564487	49958012987
3684	13571856	49998717504
3685	13579225	50039444125
3686	13586596	50080192856
3687	13593969	50120963703
3688	13601344	50161756672
3689	13608721	50202571769
3690	13616100	50243409000
3691	13623481	50284268371
3692	13630864	50325149888
3693	13638249	50366053557
3694	13645636	50406979384
3695	13653025	50447927375
3696	13660416	50488897536
3697	13667809	50529889873
3698	13675204	50579904392
3699	13682601	50611941099
3700	13690000	50653000000

R.	Sq.	Cu.	R.	Sq.	Cu.
3701	13697401	50694081101	3751	14070001	52776573751
3702	13704804	50735184408	3752	14077504	52818795008
3703	13712209	50776309927	3753	14085009	52861038777
3704	13719616	50817457664	3754	14092516	52903305064
3705	13727025	50858627625	3755	14100025	52945593875
3706	13734436	50899819816	3756	14107536	52987905216
3707	13741849	50941034243	3757	14115049	53030239093
3708	13749264	50982270912	3758	14122564	53072595512
3709	13756681	51023529829	3759	14130081	53114974479
3710	13764100	51064811000	3760	14137600	53157376000
3711	13771521	51106114431	3761	14145121	53199800081
3712	13778944	51147440128	3762	14152644	53242246728
3713	13786369	51188788097	3763	14160169	53284715947
3714	13793796	51230158344	3764	14167696	53327207744
3715	13801225	51271550875	3765	14175225	53369722125
3716	13808656	51312965696	3766	14182756	53412259096
3717	13816089	51354402813	3767	14190289	53454818663
3718	13823524	51395862232	3768	14197824	53497400832
3719	13830961	51437343959	3769	14205361	53540005609
3720	13838400	51478848080	3770	14212900	53582633000
3721	13845841	51520374361	3771	14220441	53625283011
3722	13853284	51561923048	3772	14227984	53667955648
3723	13860729	51603494067	3773	14235529	53710650917
3724	13868176	51645087424	3774	14243076	53753368824
3725	13875625	51686703125	3775	14250625	53796109375
3726	13883076	51728341176	3776	14258176	53838872576
3727	13890529	51770001583	3777	14265729	53881658433
3728	13897984	51811684352	3778	14273284	53924466952
3729	13905441	51853389489	3779	14280841	53967298139
3730	13912900	51895117000	3780	14288400	54010152000
3731	13920361	51936866891	3781	14295961	54053028541
3732	13927824	51978639168	3782	14303524	54095927768
3733	13935289	52020433837	3783	14311089	54138849687
3734	13942756	52062250904	3784	14318656	54181794304
3735	13950225	52104090375	3785	14326225	54224761625
3736	13957696	52145952256	3786	14333796	54267751656
3737	13965169	52187836553	3787	14341369	54310764403
3738	13972644	52229743272	3788	14348944	54353799872
3739	13980121	52271672419	3789	14356521	54396858069
3740	13987600	52313624000	3790	14364100	54439939000
3741	13995081	52355598021	3791	14371681	54483042671
3742	14002564	52397594488	3792	14379264	54526169088
3743	14010049	52439613407	3793	14386849	54569318257
3744	14017536	52481654784	3794	14394436	54612490184
3745	14025025	52523718625	3795	14402025	54655684875
3746	14032516	52565804936	3796	14409616	54698902336
3747	14040009	52607913723	3797	14417209	54742142573
3748	14047504	52650044992	3798	14424804	54785405592
3749	14055001	52692198749	3799	14432401	54828691399
3750	14062500	52734375000	3800	14440000	54872000000

R.	Sq.	Cu.
3801	14447601	54915331401
3802	14455204	54958685608
3803	14462809	55002062627
3804	14470416	55045462464
3805	14478025	55088885125
3806	14485636	55132330616
3807	14493249	55175798943
3808	14500864	55219290112
3809	14508481	55262804129
3810	14516100	55306341000
3811	14523721	55349900731
3812	14531344	55393483328
3813	14538969	55437088797
3814	14546596	55480717144
3815	14554225	55524368375
3816	14561856	55568042496
3817	14569489	55611739513
3818	14577124	55655459432
3819	14584761	55699202259
3820	14592400	55742968000
3821	14600041	55786756661
3822	14607684	55830568248
3823	14615329	55874402767
3824	14622976	55918260224
3825	14630625	55962140625
3826	14638276	56006043976
3827	14645929	56049970283
3828	14653584	56093919552
3829	14661241	56137891789
3830	14668900	56181887000
3831	14676561	56225905191
3832	14684224	56269946368
3833	14691889	56314010537
3834	14699556	56358097704
3835	14707225	56402107875
3836	14714896	56446341056
3837	14722569	56490497253
3838	14730244	56534676472
3839	14737921	56578878719
3840	14745600	56623104000
3841	14753281	56667352321
3842	14769964	56711623688
3843	14768649	56755918107
3844	14776336	56800235584
3845	14784025	56844576125
3846	14791716	56888939736
3847	14799409	56933326423
3848	14807104	56977736192
3849	14814801	57022169049
3850	14822500	57066625000

R.	Sq.	Cu.
3851	14830201	57111104051
3852	14837904	57155606208
3853	14845609	57200131477
3854	14853316	57244679864
3855	14861025	57289251375
3856	14868736	57333846016
3857	14876449	57378463793
3858	14884164	57423104712
3859	14891881	57467768779
3860	14899600	57512456000
3861	14907321	57557166381
3862	14915044	57601899928
3863	14922769	57646656647
3864	14930496	57691436544
3865	14938225	57736239625
3866	14945956	57781065896
3867	14953689	57825915363
3868	14961424	57879788032
3869	14969161	57915683909
3870	14976900	57960603000
3871	14984641	58005545311
3872	14992384	58050510848
3873	15000129	58095499617
3874	15007876	58140511624
3875	15015625	58185546875
3875	15023376	58230605376
3877	15031129	58275687133
3878	15038884	58320792152
3879	15046641	58365920439
3880	15054400	58411072000
3881	15062161	58456246841
3882	15069924	58501444968
3883	15077689	58546666387
3884	15085456	58591911104
3885	15093225	58637179125
3886	15100996	58682470456
3887	15108769	58727785103
3888	15116544	58773123072
3889	15124321	58818484369
3890	15132100	58863869000
3891	15139881	58909276971
3892	15147664	58954708288
3893	15155449	59000162957
3894	15163236	59045640984
3895	15171025	59091142375
3896	15178816	59136667136
3897	15186609	59182215273
3898	15194404	59227786792
3899	15202201	59273381699
3900	15210000	59319000000

R.	Sq.	Cu.
3901	15217801	59364641701
3902	15225604	59410306808
3903	15233409	59455995327
3904	15241216	59501707264
3905	15249025	59547442625
3906	15256836	59593201416
3907	15264649	59638983643
3908	15272464	59684789312
3909	15280281	59730618429
3910	15288100	59776471000
3911	15295921	59822347031
3912	15303744	59868246528
3913	15311569	59914169497
3914	15319396	59960115944
3915	15327225	60006085875
3916	15335056	60052079296
3917	15342889	60098096213
3918	15350724	60144136632
3919	15358561	60190200559
3920	15366400	60236288000
3921	15374241	60282398961
3922	15382084	60328533448
3923	15389929	60374691467
3924	15397776	60420873024
3925	15405625	60467078125
3926	15413476	60513306776
3927	15421329	60559558983
3928	15429184	60605834752
3929	15437041	60652134089
3930	15444900	60698457000
3931	15452761	60744803491
3932	15460624	60791173568
3933	15468489	60837567237
3934	15476356	60883984504
3935	15484225	60930425375
3936	15492096	60976889856
3937	15499969	61023377953
3938	15507844	61069889672
3939	15515721	61116425019
3940	15523600	61162984000
3941	15531481	61209566621
3942	15539364	61256172888
3943	15547249	61302802807
3944	15555136	61349456384
3945	15563025	61396133625
3946	15570916	61442834536
3947	15578809	61489559123
3948	15586704	61536307392
3949	15594601	61583079349
3950	15602500	61629875000
3951	15610401	61676694351
3952	15618304	61723537408
3953	15626209	61770404177
3954	15634116	61817294664
3955	15642025	61864208875
3956	15649936	61911146816
3957	15657849	61958108493
3958	15665764	62005093912
3959	15673681	62052103079
3960	15681600	62099136000
3961	15689521	62146192681
3962	15697444	62193273128
3963	15705369	62240377347
3964	15713296	62287505344
3965	15721225	62334657125
3966	15729156	62381832696
3967	15737089	62429032063
3968	15745024	62476255232
3969	15752961	62523502209
3970	15760900	62570773000
3971	15768841	62618067611
3972	15776784	62665386048
3973	15784729	62712728317
3974	15792676	62760094424
3975	15800625	62807484375
3975	15808576	62854898176
3977	15816529	62902335833
3978	15824484	62949797352
3979	15832441	62997282739
3980	15840400	63044792000
3981	15848361	63092325141
3982	15856324	63139882168
3983	15864289	63187463087
3984	15872256	63235067904
3985	15880225	63282696625
3986	15888196	63330349256
3987	15896169	63378025803
3988	15904144	63425726272
3989	15912121	63473450669
3990	15920100	63521199000
3991	15928081	63568971271
3992	15936064	63616767488
3993	15944049	63664587657
3994	15952036	63712431784
3995	15960025	63760299875
3996	15968016	63808191936
3997	15976009	63856107973
3998	15984004	63940479922
3999	15992001	63952011999
4000	16000000	64000000000

R.	Sq.	Cu.
4001	16008001	64048012001
4002	16016004	64096048008
4003	16024009	64144108027
4004	16032016	64192192064
4005	16040025	64240300125
4006	16048036	64288432216
4007	16056049	64336588343
4008	16064064	64384768512
4009	16072081	64432972729
4010	16080100	64481201000
4011	16088121	64529453331
4012	16096144	64577729728
4013	16104169	64626030197
4014	16112196	64674354744
4015	16120225	64722703375
4016	16128256	64771076096
4017	16136289	64819472913
4018	16144324	64867893832
4019	16152361	64916338859
4020	16160400	64964808000
4021	16168441	65013301261
4022	16176484	65061818648
4023	16184529	65110360167
4024	16192576	65158925824
4025	16200625	65207515625
4026	16208676	65256129576
4027	16216729	65304767683
4028	16224784	65353429952
4029	16232841	65402116389
4030	16240900	65450827000
4031	16248961	65499561791
4032	16257024	65548320768
4033	16265089	65597103937
4034	16273159	65645911304
4035	16281225	65694742875
4036	16289293	65743598656
4037	16297369	65792478653
4038	16305444	65841382872
4039	16313521	65890311319
4040	16321600	65939264000
4041	16329681	65988240921
4042	16337764	66037242088
4043	16345849	66086267507
4044	16353936	66135317184
4045	16362025	66184391125
4046	16370116	66233489336
4047	16378209	66282611823
4048	16386304	66331758592
4049	16394401	66380929649
4050	16402500	66430125000

R.	Sq.	Cu.
4051	16410601	66479344651
4052	16418704	66528588608
4053	16426809	66577856877
4054	16434916	66627149464
4055	16443025	66676466375
4056	16451136	66725807616
4057	16459249	66775173193
4058	16467364	66824563112
4059	16475481	66873977379
4060	16483600	66923416000
4061	16491721	66972878981
4062	16499844	67022366328
4063	16507969	67071878047
4064	16516096	67121414144
4065	16524225	67170974625
4066	16532356	67220559496
4067	16540489	67270168763
4068	16548624	67319802432
4069	16556761	67369460509
4070	16564900	67419143000
4071	16573041	67468849911
4072	16581184	67518581248
4073	16589329	67568337017
4074	16597476	67618117224
4075	16605625	67667921875
4076	16613776	67717750976
4077	16621929	67767604533
4078	16630084	67817482552
4079	16638241	67867385039
4080	16646400	67917312000
4081	16654561	67967263441
4082	16662724	68017239368
4083	16670889	68067239787
4084	16679056	68117264704
4085	16687225	68167314125
4086	16695396	68217388056
4087	16703569	68267486503
4088	16711744	68317609472
4089	16719921	68367756969
4090	16728100	68417929000
4091	16736281	68468125571
4092	16744464	68518346688
4093	16752649	68568592357
4094	16760836	68618862584
4095	16769025	68669157375
4096	16777216	68719476736
4097	16785409	68769820673
4098	16793604	68820189192
4099	16801801	68870582299
4100	16810000	68921000000

R.	Sq.	Cu.
4101	16818201	68971442301
4102	16826404	69021909208
4103	16834609	69072400727
4104	16842816	69122916864
4105	16851025	69173457625
4106	16859236	69224023016
4107	16867449	69274613043
4108	16875664	69325227712
4109	16883881	69375867029
4110	16892100	69426531000
4111	16900321	69477219631
4112	16908544	69527932928
4113	16916769	69578670897
4114	16924996	69629433544
4115	16933225	69680220875
4116	16949456	69731032896
4117	16949689	69781869613
4118	16957924	69832731032
4119	16966161	69883617159
4120	16974400	69934528000
4121	16982641	69985463561
4122	16990884	70036423848
4123	16999129	70087408867
4124	17007376	70138418624
4125	17015625	70189453125
4126	17023876	70240512376
4127	17032129	70291596383
4128	17040384	70342705152
4129	17048641	70393838689
4130	17056900	70444997000
4131	17065161	70496180091
4132	17073424	70547387968
4133	17081689	70598620637
4134	17089956	70649878104
4135	17098225	70701160375
4136	17106496	70752467456
4137	17114769	70803799353
4138	17123044	70855156072
4139	17131321	70906537619
4140	17139600	70957944000
4141	17147881	71009375221
4142	17156164	71060831288
4143	17164449	71112312207
4144	17172736	71163817984
4145	17181025	71215348625
4146	17189316	71266904136
4147	17197609	71318484523
4148	17205904	71370089792
4149	17214201	71421719949
4150	17222500	71473375000
4151	17230801	71525054951
4152	17239104	71576759808
4153	17247409	71628489577
4154	17255716	71680244264
4155	17264025	71732023875
4156	17272336	71783828416
4157	17280649	71835657893
4158	17288964	71887512312
4159	17297281	71939391679
4160	17305600	71991296000
4161	17313921	72043225281
4162	17322244	72095179528
4163	17330569	72147158747
4164	17338896	72199162944
4165	17347225	72251192125
4166	17355556	72303246296
4167	17363889	72355325463
4168	17372224	72407429632
4169	17380561	72459558809
4170	17388900	72511713000
4171	17397241	72563892211
4172	17405584	72616096448
4173	17413929	72668325717
4174	17422276	72720580024
4175	17430625	72772859375
4176	17438976	72825163776
4177	17447329	72877493233
4178	17455684	72929847752
4179	17464041	72982227339
4180	17472400	73034632000
4181	17480761	73087061741
4182	17489124	73139516568
4183	17497489	73191996487
4184	17505856	73244501504
4185	17514225	73297031625
4186	17522596	73349586856
4187	17530969	73402167203
4188	17539344	73454772672
4189	17547721	73507403269
4190	17556100	73560059000
4191	17564481	73612739871
4192	17572864	73665445888
4193	17581249	73718177057
4194	17589636	73770933384
4195	17598025	73823714875
4196	17606416	73876521536
4197	17614809	73929353373
4198	17623204	73982210392
4199	17631601	74035092599
4200	17640000	74088000000

R	Sq.	Cu.
4201	17648401	74140932601
4202	17656804	74193890408
4203	17665209	74246873427
4204	17673616	74299881664
4205	17682025	74352915125
4206	17690436	74405973816
4207	17698849	74459057743
4208	17707264	74512166912
4209	17715681	74565301329
4210	17724100	74618461000
4211	17732521	74671645931
4212	17740944	74724856128
4213	17749369	74778091597
4214	17757796	74831352344
4215	17766225	74884638375
4216	17774656	74937949696
4217	17783089	74991286313
4218	17791524	75044648232
4219	17799961	75098035459
4220	17808400	75151448000
4221	17816841	75204885861
4222	17825284	75258349048
4223	17833729	75311837567
4224	17842176	75365351424
4225	17850625	75418890625
4226	17859076	75472455176
4227	17867529	75526045083
4228	17875984	75579660352
4229	17884441	75633300989
4230	17892900	75686967000
4231	17901361	75740658391
4232	17909824	75794375168
4233	17918289	75848117337
4234	17926756	75901884904
4235	17935225	75955677875
4236	17943696	76009496256
4237	17952169	76063340053
4238	17960644	76117209272
4239	17969121	76171103919
4240	17977600	76225024000
4241	17986081	76278969521
4242	17994564	76332940488
4243	18003049	76386936907
4244	18011536	76440958784
4245	18020025	76495006125
4246	18028516	76549078936
4247	18037009	76603177223
4248	18045504	76657300992
4249	18054001	76711450249
4250	18062500	76765625000

R.	Sq.	Cu.
4251	18071001	76819825251
4252	18079504	76874051008
4253	18088009	76928302277
4254	18096516	76982579064
4255	18105025	77036881375
4256	18113536	77091209216
4257	18122049	77145562593
4258	18130564	77199941512
4259	18139081	77254345979
4260	18147600	77308776000
4261	18156121	77363231581
4262	18164644	77417712728
4263	18173169	77472219447
4264	18181696	77526751744
4265	18190225	77581309625
4266	18198756	77635893096
4267	18207289	77690502163
4268	18215824	77745136832
4269	18224361	77799797109
4270	18232900	77854483000
4271	18241441	77909194511
4272	18249984	77963931648
4273	18258529	78018694417
4274	18267076	78073482824
4275	18275625	78128296875
4276	18284176	78183136576
4277	18292729	78238001933
4278	18301284	78292892952
4279	18309841	78347809639
4280	18318400	78402752000
4281	18326961	78457720041
4282	18335524	78512713768
4283	18344089	78567733187
4284	18352656	78622778304
4285	18361225	78677849125
4286	18369796	78732945656
4287	18378369	78788067903
4288	18386944	78843215872
4289	18395521	78898389569
4290	18404100	78953589000
4291	18412681	79008814171
4292	14421264	79064065088
4293	14429849	79119341757
4294	14438436	79174644184
4295	14447025	79229972375
4296	14455616	79285326336
4297	14464209	79340706073
4298	14472804	79386111592
4299	14481401	79451542899
4300	18490000	79507000000

R.	Sq.	Cu.
4301	18498601	79562482901
4302	18507204	79617991608
4303	18515809	79673526127
4304	18524416	79729086464
4305	18533025	79784672625
4306	18541636	79840284616
4307	18550249	79895922443
4308	18558864	79951586112
4309	18567481	80007275629
4310	18576100	80062991000
4311	18584721	80118732131
4312	18593344	80174499328
4313	18601969	80230292297
4314	18610596	80286111144
4315	18619225	80341955875
4316	18627856	80397826496
4317	18636489	80453723013
4318	18645124	80509645432
4319	18653761	80565593759
4320	18662400	80621568000
4321	18671041	80677568161
4322	18679684	80733594248
4323	18688329	80789646267
4324	18696976	80845724224
4325	18705625	80901828125
4326	18714276	80957957976
4327	18722929	81014113783
4328	18731584	81070295552
4329	18740241	81126503289
4330	18748900	81182737000
4331	18757561	81238996691
4332	18766224	81295282368
4333	18774889	81351594037
4334	18783556	81407931704
4335	18792225	81464295375
4336	18800896	81520685056
4337	18809569	81577100753
4338	18818244	81633542472
4339	18826921	81690010219
4340	18835600	81746504000
4341	18844281	81803023821
4342	18852964	81859569688
4343	18861649	81916141607
4344	18870336	81972739584
4345	18879025	82029363625
4346	18887716	82086013736
4347	18896409	82142689923
4348	18905104	82199392192
4349	18913801	82256120549
4350	18922500	82312875000

R.	Sq.	Cu.
4351	18931201	82369655551
4352	18939904	82426462208
4353	18948609	82483294977
4354	18957316	82540153864
4355	18966025	82597038875
4356	18974736	82653950016
4357	18983449	82710887293
4358	18992164	82767850712
4359	19000881	82824840279
4360	19009600	82881856000
4361	19018321	82938897881
4362	19027044	82995965928
4363	19035769	83053060147
4364	19044496	83110180544
4365	19053225	83167327125
4366	19061956	83224499896
4367	19070689	83281698863
4368	19079424	83338924032
4369	19088161	83396175409
4370	19096900	83453453000
4371	19105641	83510756811
4372	19114384	83568086848
4373	19123129	83625443117
4374	19131876	83682825624
4375	19140625	83740234375
4376	19149376	83797669376
4377	19158129	83855130633
4378	19166884	83912618152
4379	19175641	83970131939
4380	19184400	84027672000
4381	19193161	84085238341
4382	19201924	84142830968
4383	19210689	84200449887
4384	19219456	84258095104
4385	19228225	84315766625
4386	19236996	84373464456
4387	19245769	84431188603
4388	19254544	84488939072
4389	19263321	84546715869
4390	19272100	84604519000
4391	19280881	84662348471
4392	19289664	84720204288
4393	19298449	84778086457
4394	19307236	84835994984
4395	19316025	84893929875
4396	19324816	84951891136
4397	19333609	85009878773
4398	19342404	85067892792
4399	19351201	85125933199
4400	19360000	85184000000

R.	Sq.	Cu.
4401	19368801	85242093201
4402	19377604	85300212808
4403	19386409	85358358827
4404	19395216	85416531264
4405	19404025	85474730125
4406	19412836	85532955416
4407	19421649	85591207143
4408	19430464	85649485312
4409	19438281	85707789929
4410	19448100	85766121000
4411	19456921	85824478531
4412	19465744	85882862528
4413	19474569	85941272997
4414	19483396	85999709944
4415	19492225	86058173375
4416	19501056	86116663296
4417	19509889	86175179713
4418	19518724	86233722632
4419	19527561	86292292059
4420	19536400	86350888000
4421	19545241	86409510461
4422	19554084	86468159448
4423	19562929	86526834967
4424	19571776	86585537024
4425	19580625	86644265625
4426	19589476	86703020776
4427	19598329	86761802483
4428	19607184	86820610752
4429	19616041	86879445589
4430	19624900	86938307000
4431	19633761	86997194991
4432	19642624	87056109568
4433	19651489	87115050737
4434	19660356	87174018504
4435	19669225	87233012875
4436	19678096	87292033856
4437	19686969	87351081453
4438	19695844	87410155672
4439	19704721	87469256519
4440	19713600	87528384000
4441	19722481	87587538121
4442	19731364	87646718888
4443	19740249	87705926307
4444	19749136	87765160384
4445	19758025	87824421125
4446	19766916	87883708536
4447	19775809	87943022623
4448	19784704	88002363392
4449	19793601	88061730849
4450	19802500	88121125000

R.	Sq.	Cu.
4451	19811401	88180545851
4452	19820304	88239993408
4453	19829209	88299467677
4454	19838116	88358968664
4455	19847025	88418496375
4456	19855936	88478050816
4457	19864849	88537631993
4458	19873764	88597239912
4459	19882681	88656874579
4460	19891600	88716536000
4461	19900521	88776224181
4462	19909444	88835939128
4463	19918369	88895680847
4464	19927296	88955449344
4465	19936225	89015244625
4466	19945156	89075066696
4467	19954089	89134915563
4468	19963024	89194791232
4469	19971961	89254693709
4470	19980900	89314623000
4471	19989841	89374579111
4472	19998784	89434562048
4473	20007729	89494571817
4474	20016676	89554608424
4475	20025625	89614671875
4476	20034576	89674762176
4477	20043529	89734879333
4478	20052484	89795023352
4479	20061441	89855194239
4480	20070400	89915392000
4481	20079361	89975616641
4482	20088324	90035868168
4483	20097289	90096146587
4484	20106256	90156451904
4485	20115225	90216784125
4486	20124196	90277143256
4487	20133169	90337529303
4488	20142144	90397942272
4489	20151121	90458382169
4490	20160100	90518849000
4491	20169081	90579342771
4492	20178064	90639863488
4493	20187049	90700411157
4494	20196036	90760985784
4495	20205025	90821587375
4496	20214016	90882215936
4497	20223009	90942871473
4498	20232004	91003553992
4499	20241001	91064263499
4500	20250000	91125000000

R.	Sq.	Cu.
4501	20259002	91185763501
4502	20268004	91246554008
4503	20277009	91307371527
4504	10286016	91368216064
4505	20295025	91429087625
4506	20304036	91489986216
4507	20313049	91550911843
4508	20322064	91611864512
4509	20331081	91672844229
4510	20340100	91733851000
4511	20349121	91794884831
4512	20358144	91855945728
4513	20367169	91917033697
4514	20376196	91978148744
4515	20385225	92039290875
4516	20394256	92100460096
4517	20403289	92161656413
4518	20412324	92222879832
4519	20421361	92284130359
4520	20430400	92345408000
4521	20439441	92406712761
4522	20448484	92468044648
4523	20457529	92529403667
4524	20466576	92590789824
4525	20475625	92652203125
4526	20484676	92713643576
4527	20493729	92775111183
4528	20502784	92836605952
4529	20511841	92898127889
4530	20520900	92959677000
4531	20529961	93021253291
4532	20539024	93082856768
4533	20548089	93144487437
4534	20557156	93206145304
4535	20566225	93267830375
4536	20575296	93329542656
4537	20584369	93391282153
4538	20593444	93453048872
4539	20602521	93514842819
4540	20611600	93576664000
4541	20620681	93638512421
4542	20629764	93700388088
4543	20638849	93762291007
4544	20647936	93824221184
4545	20657025	93886178625
4546	20666116	93948163336
4547	20675209	94010175323
4548	20684304	94072214592
4549	20693401	94134281149
4550	20702500	94196375000
4551	20711601	94258496151
4552	20720704	94320644608
4553	20729809	94382820377
4554	20738916	94445023464
4555	20748025	94507253875
4556	20757136	94569511616
4557	20766249	94631796693
4558	20775364	94694109112
4559	20784481	94756448879
4560	20793600	94818816000
4561	20802721	94881210481
4562	20811844	94943632328
4563	20820969	95006081547
4564	20830096	95068558144
4565	20839225	95131062125
4566	20848356	95193593496
4567	20857489	95256152263
4568	20866624	95318738432
4569	20875761	95381352009
4570	20884900	95443993000
4571	20894041	95506661411
4572	20903184	95569357248
4573	20912329	95632080517
4574	20921476	95694831224
4575	20930625	95757609375
4576	20939776	95820414976
4577	20948929	95883248033
4578	20958084	95946108552
4579	20967241	96008996539
4580	20976400	96071912000
4581	20985561	96134854941
4582	20994724	96197825368
4583	21003889	96260823287
4584	21013056	96323848704
4585	21022225	96386901625
4586	21031396	96449982056
4587	21040569	96513090003
4588	21049744	96576225472
4589	21058921	96639388469
4590	21068100	96702579000
4591	21077281	96765797071
4592	21086464	96829042688
4593	21095649	96892315857
4594	21104836	96955616584
4595	21114025	97018944875
4596	21123216	97082300736
4597	21132409	97145684173
4598	21141604	97209095192
4599	21150801	97272533799
4600	21160000	97336000000

R	Sq.	Cu.
4601	21169201	97399493801
4602	21178404	97463015208
4603	21187609	97526564227
4604	21196816	97590140864
4605	21206025	97653745125
4606	21215236	97717377016
4607	21224449	97781036543
4608	21233664	97844723712
4609	21242881	97908438529
4610	21252100	97972181000
4611	21261321	98035951131
4612	21270544	98099748928
4613	21279769	98163574397
4614	21288996	98227427544
4615	21298225	98291308375
4616	21307456	98355216896
4617	21316689	98419153113
4618	21325924	98483117032
4619	21335161	98547108659
4620	21344400	98611128000
4621	21353641	98675175061
4622	21362884	98739249848
4623	21372129	98803352367
4624	21381376	98867482624
4625	21390625	98931640625
4626	21399876	98995826376
4627	21409129	99060039883
4628	21418384	99124281152
4629	21427641	99188550189
4630	21436900	99252847000
4631	21446161	99317171591
4632	21455424	99381523968
4633	21464689	99445904137
4634	21473956	99510312104
4635	21483225	99574747875
4636	21492496	99639211456
4637	21501769	99703702853
4638	21511044	99768222072
4639	21520321	99832769119
4640	21529600	99897344000
4641	21538881	99961946721
4642	21548164	100026577288
4643	21557449	100091235707
4644	21566736	100155921984
4645	21576025	100220636125
4646	21585316	100285378136
4647	21594609	100350148023
4648	21603904	100414945792
4649	21613201	100479771449
4650	21622500	100544625000

R.	Sq.	Cu.
4651	21631801	100609506451
4652	21641104	100674415808
4653	21650409	100739353077
4654	21659716	100804318264
4655	21669025	100869311375
4656	21678336	100934332416
4657	21687649	100999381393
4658	21696964	101064458312
4659	21706281	101129563179
4660	21715600	101194696000
4661	21724921	101259856781
4662	21734244	101325045528
4663	21743569	101390262247
4664	21752896	101455506944
4665	21762225	101520779625
4666	21771556	101586080296
4667	21780889	101651408963
4668	21790224	101716765632
4669	21799561	101782150309
4670	21808900	101847563000
4671	21818241	101913003711
4672	21827584	101978472448
4673	21836929	102043969217
4674	21846276	102109494024
4675	21855625	102175046875
4676	21864976	102240627776
4677	21874329	1023062[illegible]6733
4678	21883684	102371873752
4679	21893041	102437538839
4680	21902400	102503232000
4681	21911761	102568953241
4682	21921124	102634702568
4683	21930489	102700479987
4684	21939856	102766285504
4685	21949225	102832119125
4686	21958596	102897980856
4687	21967969	102963870703
4688	21977344	103029788672
4689	21986721	103095734769
4690	21996100	103161709000
4691	22005481	103227711371
4692	22014864	103293741888
4693	22024249	103359800557
4694	22033636	103425887384
4695	22043025	103492002375
4696	22052416	103558145536
4697	22061809	103624316873
4698	22071204	103690516392
4699	22080601	103756744099
4700	22090000	103823000000

R	Sq.	Cu.	R.	Sq.	Cu.
4701	22099401	103889284101	4751	22572001	107239576751
4702	22108804	103955596408	4752	22581504	107307307008
4703	22118209	104021936927	4753	22591009	107375065777
4704	22127616	104088305664	4754	22600516	107442853064
4705	22137025	104154702625	4755	22610025	107510668875
4706	22146436	104221127816	4756	22619536	107578513216
4707	22155849	104287581243	4757	22629049	107646386093
4708	22165264	104354062912	4758	22638564	107714287512
4709	22174681	104420572829	4759	22648081	107782217479
4710	22184100	104487111000	4760	22657600	107850176000
4711	22193521	104553677431	4761	22667121	107918163081
4712	22202944	104620272128	4762	22676644	107986178728
4713	22212369	104686895097	4763	22686169	108054222947
4714	22221796	104753546344	4764	22695696	108122295744
4715	22231225	104820225875	4765	22705225	108190397125
4716	22240656	104886933696	4766	22714756	108258527096
4717	22250089	104953669813	4767	22724289	108326685663
4718	22259524	105020434232	4768	22733824	108394872832
4719	22268961	105087226959	4769	22743361	108463088609
4720	22278400	105154048000	4770	22752900	108531333000
4721	22287841	105220897361	4771	22762441	108599606011
4722	22297284	105287775048	4772	22771984	108667907648
4723	22306729	105354681067	4773	22781529	108736237917
4724	22316176	105421615424	4774	22791076	108804596824
4725	22325625	105488578125	4775	22800625	108872984385
4726	22335076	105555569176	4776	22810176	108941400576
4727	22344529	105622588583	4777	22819729	109009845433
4728	22353984	105689636352	4778	22829284	109078318952
4729	22363441	105756712489	4779	22838841	109146821139
4730	22372900	105823817000	4780	22848400	109215352000
4731	22382361	105890949891	4781	22857961	109283911541
4732	22391824	105958111168	4782	22867524	109352499768
4733	22401289	106025300837	4783	22877089	109421116687
4734	22410756	106092518904	4784	22886656	109489762304
4735	22420225	106159765375	4785	22896225	109558436625
4736	22429696	106227040256	4786	22905796	109627139656
4737	22439169	106294343553	4787	22915369	109695871403
4738	22448644	106361675272	4788	22924944	109764631872
4739	22458121	106429035419	4789	22934521	109833421069
4740	22467600	106496424000	4790	22944100	109902239000
4741	22477081	106563841021	4791	22953681	109971085671
4742	22486564	106631286488	4792	22963264	110039961088
4743	22496049	106698760407	4793	22972849	110108865257
4744	22505536	106766262784	4794	22982436	110177798184
4745	22515025	106833793625	4795	22992025	110246759875
4746	22524516	106901352936	4796	23001616	110315750336
4747	22534009	106968940723	4797	23011209	110384769573
4748	22543504	107036556992	4798	23020804	110453817592
4749	22553001	107104201749	4799	23030401	110522894399
4750	22562500	107171875000	4800	23040000	110592000000

R.	Sq.	Cu.
4801	23049601	110661134401
4802	23059204	110730297608
4803	23068809	110799489627
4804	23078416	110868710464
4805	23088025	110937960125
4806	23097636	111007238616
4807	23107249	111076545943
4808	23116864	111145882112
4809	23126481	111215247129
4810	23136100	111284641000
4811	23145721	111354063731
4812	23155344	111423515328
4813	23164969	111492995797
4814	23174596	111562505144
4815	23184225	111632043375
4816	23193856	111701610496
4817	23203489	111771206513
4818	23213124	111840831432
4819	23222761	111910485259
4820	23232400	111980168000
4821	23242041	112049879661
4822	23251684	112119620248
4823	23261329	112189389767
4824	23270976	112259188224
4825	23280625	112329015625
4826	23290276	112398871976
4827	23299929	112468757283
4828	23309584	112538671552
4829	23319241	112608614789
4830	23328900	112678587000
4831	23338561	112748588191
4832	23348224	112818618368
4833	23357889	112888677537
4834	23367556	112958765704
4835	23377225	113028882875
4836	23386896	113099029056
4837	23396569	113169204253
4838	23406244	113239408472
4839	23415921	113309641719
4840	23425600	113379904000
4841	23435281	113450195321
4842	23444964	113520515688
4843	23454649	113590865107
4844	23464336	113661243584
4845	23474025	113731651125
4846	23483716	113802087736
4847	23493409	113872553423
4848	23503104	113943048192
4849	23512801	114013572049
4850	23522500	114084125000

R.	Sq.	Cu.
4851	23532201	114154707051
4852	23541904	114225318208
4853	23551609	114295958477
4854	23561316	114366627864
4855	23571025	114437326375
4856	23580736	114508054016
4857	23590449	114578810793
4858	23600164	114649596712
4859	23609881	114720411779
4860	23619600	114791256000
4861	23629321	114862129381
4862	23639044	114933031928
4863	23648769	115003963647
4864	23658496	115074924544
4865	23668225	115145914625
4866	23677956	115216933896
4867	23687689	115287982363
4868	23697424	115359060032
4869	23707161	115430166909
4870	23716900	115501303000
4871	23726641	115572468311
4872	23736384	115643662848
4873	23746129	115714886617
4874	23755876	115786139624
4875	23765625	115857421875
4876	23775376	115928733376
4877	23785129	116000074133
4878	23794884	116071444152
4879	23804641	116142843439
4880	23814400	116214272000
4881	23824161	116285729841
4882	23833924	116357216968
4883	23843689	116428733387
4884	23853456	116500279104
4885	23863225	116571854125
4886	23872996	116643458456
4887	23882769	116715092103
4888	23892544	116786755072
4889	23902321	116858447369
4890	23912100	116930169000
4891	23921881	117001919971
4892	23931664	117073700288
4893	23941449	117145509957
4894	23951236	117217348984
4895	23961025	117289217375
4896	23970816	117361115136
4897	23980609	117433042273
4898	23990404	117504998792
4899	24000201	117576984699
4900	24010000	117649000000

R.	Sq.	Cu.	R.	Sq.	Cu.
4901	24019801	117721044701	4951	24512401	121360897351
4902	24029604	117793118808	4952	24522304	121434449408
4903	24039409	117865222327	4953	24532209	121508031177
4904	24049216	117937355264	4954	24542116	121581642664
4905	24059025	118009517625	4955	24552925	121655283875
4906	24068836	118081709416	4956	24561936	121728954816
4907	24078649	118153930643	4957	24571849	121802655493
4908	24088464	118226181312	4958	24581764	121876385912
4909	24098281	118298461429	4959	24591681	121950146079
4910	24108100	118370771000	4960	24601600	122023936000
4911	24117921	118443110031	4961	24611521	122097755681
4912	24127744	118515478528	4962	24621444	122171605128
4913	24137569	118587876497	4963	24631369	122245484347
4914	24147396	118660303944	4964	24641296	122319393344
4915	24157225	118732760875	4965	24651225	122393332125
4916	24167056	118805247296	4966	24661156	122467300696
4917	24176889	118877763213	4967	24671089	122541299063
4918	24186724	118950308632	4968	24681024	122615327232
4919	24196561	119022883559	4969	24690961	122689385209
4920	24206400	119095488000	4970	24700900	122763473000
4921	24216241	119168121961	4971	24710841	122837590611
4922	24226084	119240785448	4972	24720784	122911738048
4923	24235929	119313478467	4973	24730729	122985915317
4924	24245776	119386201024	4974	24740676	123060122424
4925	24255625	119458953125	4975	24750625	123134359375
4926	24265476	119531734776	4976	24760576	123208626176
4927	24275329	119604545983	4977	24770529	123282922833
4928	24285184	119677386752	4978	24780484	123357249352
4929	24295041	119750257089	4979	24790441	123431605739
4930	24304900	119823157000	4980	24800400	123505992000
4931	24314761	119896086491	4981	24810361	123580408141
4932	24324624	119969045568	4982	24820324	123654854168
4933	24334489	120042034237	4983	24830289	123729330087
4934	24344356	120115052504	4984	24840256	123803835904
4935	24354225	120188100375	4985	24850225	123878371625
4936	24364096	120261177856	4986	24860196	123952937256
4937	24373969	128334284953	4987	24870169	124027532803
4938	24383844	120407421672	4988	24880144	124102158272
4939	24393721	120480588019	4989	24890121	124176813669
4940	24403600	120553784000	4990	24900100	124251499000
4941	24413481	120627009621	4991	24910081	124326214271
4942	34423364	120700264888	4992	24920064	124400959488
4943	24433249	120773549807	4993	24930049	124475734657
4944	24443136	120846864384	4994	24940036	124550539784
4945	24453025	120920208625	4995	24950025	124625374875
4946	24462916	120993582536	4996	24960016	124700239936
4947	24472809	121066986123	4997	24970009	124775134973
4948	24482704	121140419392	4998	24980004	124850059992
4949	24492601	121213882349	4999	24990001	124925014999
4950	24502500	121287375000	5000	25000000	125000000000

R.	Sq.	Cu.	R.	Sq.	Cu.
5001	25010001	125075015001	5051	25512601	128864147651
5002	25020004	125150060008	5052	25522704	128940700608
5003	25030009	125225135027	5053	25532809	129017283877
5004	25040016	125300240064	5054	25542916	129093897464
5005	25050025	125375375125	5055	25553025	129170541375
5006	25060036	125450540216	5056	25563136	129247215616
5007	25070049	125525735343	5057	25573249	129323920193
5008	25080064	125600960512	5058	25583364	129400655112
5009	25090081	125676215729	5059	25593481	129477420379
5010	25100100	125751501000	5060	25603600	129554216000
5011	25110121	125826816331	5061	25613721	129631041981
5012	25120144	125902161728	5062	25623844	129707898328
5013	25130169	125977537197	5063	25633969	129784785047
5014	25140196	126052942744	5064	25644096	129861702144
5015	25150225	126128378375	5065	25654225	129938649625
5016	25160256	126203844096	5066	25664356	130015627496
5017	25170289	126279339913	5067	25674489	130092635763
5018	25180324	126354865832	5068	25684624	130169674432
5019	25190361	126430421859	5069	25694761	130246743509
5020	25200400	126506008000	5070	25704900	130323843000
5021	25210441	126581624261	5071	25715041	130400972911
5022	25220484	126657270648	5072	25725184	130478133248
5023	25230529	126732947167	5073	25735329	130555324017
5024	25240576	126808653824	5074	25745476	130632545224
5025	25250625	126884390625	5075	25755625	130709796875
5026	25260676	126960157576	5076	25765776	130787078976
5027	25270729	127035954683	5077	25775929	130864391533
5028	25280784	127111781952	5078	25786084	130941734552
5029	25290841	127187639389	5079	25796241	131019108039
5030	25300900	127263527000	5080	25806400	131096512000
5031	25310961	127339444791	5081	25816561	131173946441
5032	25321024	127415392768	5082	25826724	131251411368
5033	25331089	127491370937	5083	25836889	131328906787
5034	25341156	127567379304	5084	25847056	131406432704
5035	25351225	127643417875	5085	25857225	131483989125
5036	25361296	127719486656	5086	25867396	131561576056
5037	25371369	127795585653	5087	25877569	131639193503
5038	25381444	127871714872	5088	25887744	131716841472
5039	25391521	127947874319	5089	25897921	131794519969
5040	25401600	128024064000	5090	25908100	131872229000
5041	25411681	128100283921	5091	25918281	131949968571
5042	25421764	128176534088	5092	25928464	132027738688
5043	25431849	128252814507	5093	25938649	132105539357
5044	25441936	128329125184	5094	25948836	132183370584
5045	25452025	128405466125	5095	25959025	132261232375
5046	25462116	128481837336	5096	25969216	132339124736
5047	25472209	128558238823	5097	25979409	132417047673
5048	25482304	128634670592	5098	25989604	132495001192
5049	25492401	128711132649	5099	25999801	132572985299
5050	25502500	128787625000	5100	26010000	132651000000

R.	Sq.	Cu.	R.	Sq.	Cu.
5101	26020201	132729045301	5151	26532801	136670457951
5102	26030404	132807121208	5152	26543104	136750071808
5103	26040609	132885227727	5153	26553409	136829716577
5104	26050816	132963364864	5154	26563716	136909392264
5105	26061025	133041532625	5155	26574025	136989098875
5106	26071236	133119731016	5156	26584336	137068836416
5107	26081449	133197960043	5157	26594649	137148604893
5108	26091664	133276219712	5158	26604964	137228404312
5109	26101881	133354510029	5159	26615281	137308234679
5110	26112100	133432831000	5160	26625600	137388096000
5111	26122321	133511182631	5161	26635921	137467988281
5112	26132544	133589564928	5162	26646244	137547911528
5113	26142769	133667977897	5163	26656569	137627865747
5114	26152996	133746421544	5164	26666896	137707850944
5115	26163225	133824895875	5165	26677225	137787867125
5116	26173456	133903400896	5166	26687556	137867914296
5117	26183689	133981936613	5167	26697889	137947992463
5118	26193924	134060503032	5168	26708224	138028101632
5119	26204161	134139100159	5169	26718561	138108241809
5120	26214400	134217728000	5170	26728900	138188413000
5121	26224641	134296386561	5171	26739241	138268615211
5122	26234884	134375075848	5172	26749584	138348848448
5123	26245129	134453795867	5173	26759929	138429112717
5124	26255376	134532546624	5174	26770276	138509408024
5125	26265625	134611328125	5175	26780625	138589734375
5126	26275876	134690140376	5176	26790976	138670091776
5127	26286129	134768983383	5177	26801329	138750480233
5128	26296384	134847857152	5178	26811684	138830899752
5129	26306641	134926761689	5179	26822041	138911350339
5130	26316900	135005697000	5180	26832400	138991832000
5131	26327161	135084663091	5181	26842761	139072344741
5132	26337424	135163659968	5182	26853124	139152888568
5133	26347689	135242687637	5183	26863489	139233463487
5134	26357956	135321746104	5184	26873856	139314069504
5135	26368225	135400835375	5185	26884225	139394706625
5136	26378496	135479955456	5186	26894596	139475374856
5137	26388769	135559106353	5187	26904969	139556074203
5138	26399044	135638288072	5188	26915344	139636804672
5139	26409321	135717500619	5189	26925721	139717566269
5140	26419600	135796744000	5190	26936100	139798359000
5141	26429881	135876018221	5191	26946481	139879182871
5142	26440164	135955323288	5192	26956864	139960037888
5143	26450449	136034659207	5193	26967249	140040924057
5144	26460736	136114025984	5194	26977636	140121841384
5145	26471025	136193423625	5195	26988025	140202789875
5146	26481316	136272852136	5196	26998416	140283769536
5147	26491609	136352311523	5197	27008809	140364780373
5148	26501904	136431801792	5198	27019204	140445822392
5149	26512201	136511322949	5199	27029601	140526895599
5150	26522500	136590875000	5200	27040000	140608000006

R.	Sq.	Cu.
5201	27050401	140689135601
5202	37060804	140770302408
5203	27071209	140851500427
5204	27081616	140932729664
5205	27092025	141013990125
5206	27102436	141095281816
5207	27112849	181176604743
5208	27123264	181257958912
5209	27133681	181339344329
5210	27144100	141420761000
5211	27154521	141502208931
5212	27164944	141583688128
5213	27175369	141665198597
5214	27185796	141746740344
5215	27196225	141828313375
5216	27206656	141909917696
5217	27217089	141991553313
5218	27227524	142073220232
5219	27237961	142154918459
5220	27248400	142236648000
5221	27258841	142318408861
5222	27269284	142400201048
5223	27279729	142482024567
5224	27290176	142563879424
5225	27300625	142645765625
5226	27311076	142727683176
5227	27321529	142809632083
5228	27331984	142891612352
5229	27342441	142973623989
5230	27352900	143055667000
5231	27363361	143137741391
5232	27373824	143219847168
5233	27384289	143301984337
5234	27394756	143384152904
5235	27405225	143466352875
5236	27415696	143548584256
5237	27426169	143630847053
5238	27436644	143713141272
5239	27447121	143795466919
5240	27457600	143877824000
5241	27468081	143960212521
5242	27478564	144042632488
5243	27489049	144125083907
5244	27499536	144207566784
5245	27510025	144290081125
5246	27520516	144372626936
5247	27531009	144455204223
5248	27541504	144537812992
5249	27552001	144620453249
5250	27562500	144703125000
5251	27573001	144785828251
5252	27583504	144868563008
5253	27594009	144951329277
5254	27604516	145034127064
5255	27615025	145116956375
5256	27625536	145199817216
5257	27636049	145282709593
5258	27646564	145365633512
5259	27657081	145448588979
5260	27667600	145531576000
5261	27678121	145614594581
5262	27688644	145697644728
5263	27699169	145780726447
5264	27709696	145863839744
5265	27720225	145946984625
5266	27730756	146030161096
5267	27741289	146113369163
5268	27751824	146196608832
5269	27762361	146279880109
5270	27772900	146363183000
5271	27783441	146446517511
5272	27793984	146529883648
5273	27804529	146613281417
5274	27815076	146696710824
5275	27825625	146780171875
5276	27836176	146863664576
5277	27846729	146947188933
5278	27857284	147030744952
5279	27867841	147114332639
5280	27878400	147197952000
5281	27888961	147281603041
5282	27899524	147365285768
5283	27910089	147449000187
5284	27920656	147532746304
5285	27931225	147616524125
5286	27941796	147700333656
5287	27952369	147784174903
5288	27962944	147868047872
5289	27973521	147951952569
5290	27984100	148035889000
5291	27994681	148119857171
5292	28005264	148203857088
5293	28015849	148287888757
5294	28026436	148371952184
5295	28037025	148456047375
5296	28047616	148540174336
5297	28058209	148624333073
5298	28068804	148708523592
5299	28079401	148792745899
5300	28090000	148770000000

R.	Sq.	Cu.
5301	28100601	148961285901
5302	28111204	149045603608
5303	28121809	149129953127
5304	28132416	149214334464
5305	28143025	149298747625
5306	28153636	149383192616
5307	28164249	149467669443
5308	28174864	149552178112
5309	28185481	149636718629
5310	28196100	149721291000
5311	28206721	149805895231
5312	28217344	149890531328
5313	28227969	149975199297
5314	28238596	150059899144
5315	28249225	150144630875
5316	28259856	150229394496
5317	28270489	150314190013
5318	28281124	150399017432
5319	28291761	150483876759
5320	28302400	150568768000
5321	28313041	150653691161
5322	28323684	150738646248
5323	28334329	150823633267
5324	28344976	150908652224
5325	28355625	150993703125
5326	28366276	151078785976
5327	28376929	151163900783
5328	28387584	151249047552
5329	28398241	151334226289
5330	28408900	151419437000
5331	28419561	151504679691
5332	28430224	151589954368
5333	28440889	151675261037
5334	28451556	151760599704
5335	28462225	151845970375
5336	28472896	151931373056
5337	28483569	152016807753
5338	28494244	152102274472
5339	28504921	152187773219
5340	28515600	152273304000
5341	28526281	152358866821
5342	28536964	152444461688
5343	28547649	152530088607
5344	28558336	152615747584
5345	28569025	152701438625
5346	28579716	152787161736
5347	28590409	152872916923
5348	28601104	152958704192
5349	28611801	153044523549
5350	28622500	153130375000
5351	28633201	153216258551
5352	28643904	153302174208
5353	28654609	153388121977
5354	28665316	153474101864
5355	28676025	153560113875
5356	28686736	153646158016
5357	28697449	153732234293
5358	28708164	153818342712
5359	28718881	153904483279
5360	28729600	153990656000
5361	28740321	154076860881
5362	28751044	154163097928
5363	28761769	154249367147
5364	28772496	154335668544
5365	28783225	154422002125
5366	28793956	154508367896
5367	28804689	154594765863
5368	28815424	154681196032
5369	28826161	154767658409
5370	28836900	154854153000
5371	28847641	154940679811
5372	28858384	155027238848
5373	28869129	155113830117
5374	28879876	155200453624
5375	28890625	155287109375
5376	28901376	155373797376
5377	28912129	155460517633
5378	28922884	155547270152
5379	28933641	155634054939
5380	28944400	155720872000
5381	28955161	155807721341
5382	28965924	155894602968
5383	28976689	155981516887
5384	28987456	156068463104
5385	28998225	156155441625
5386	29008996	156242452456
5387	29019769	156329495603
5388	29030544	156416571072
5389	29041321	156503678869
5390	29052100	156590819000
5391	29062881	156677991471
5392	29073664	156765196288
5393	29084449	156852433457
5394	29095236	156939702984
5395	29106025	157027004875
5396	29116816	157114339136
5397	29127609	157201705773
5398	29138404	157289104792
5399	29149201	157376536199
5400	29160000	157464000000

R.	Sq.	Cu.	R.	Sq.	Cu.
5401	29170801	157551496201	5451	29713401	161967748851
5402	29181604	157639024808	5452	29724304	162056905408
5403	29192409	157726585827	5453	29735209	162146094677
5404	29203216	157814179264	5454	29746116	162235316664
5405	29214025	157901805125	5455	29757025	162324571375
5406	29224836	157989463416	5456	29767936	162413858816
5407	29235649	158077154143	5457	29778849	162503178993
5408	29246464	158164877312	5458	29789764	162592531912
5409	29257281	158252632929	5459	29800681	162681917579
5410	29268100	158340421000	5460	29811600	162771336000
5411	29278921	158428241531	5461	29822521	162860787181
5412	29289744	158516094528	5462	29833444	162950271428
5413	29300569	158603979997	5463	29844369	163039787847
5414	29311396	158691897944	5464	29855296	163129337344
5415	29322225	158779848375	5465	29866225	163218919625
5416	29333056	158867831296	5466	29877156	163308534696
5417	29343889	158955846713	5467	29888089	163398182563
5418	29354724	159043894632	5468	29899024	163487863232
5419	29365561	159131975059	5469	29909961	163577576709
5420	29376400	159220088000	5470	29920900	163667323000
5421	29387241	159308233461	5471	29931841	163757102111
5422	29398084	159396411448	5472	29942784	163846914048
5423	29408929	159484621967	5473	29953729	163936758817
5424	29419776	159572865024	5474	29964676	164026636424
5425	29430625	159661140625	5475	29975625	164116546875
5426	29441476	159749448776	5475	29986576	164206490176
5427	29452329	159837789483	5477	29997529	164296466333
5428	29463184	159926162752	5478	30008484	164386475352
5429	29474041	160014568589	5479	30019441	164476517239
5430	29484900	160103007000	5480	30030400	164566592000
5431	29495761	160191477991	5481	30041361	164656699641
5432	29506624	160279981568	5482	30052324	164746840168
5433	29517489	160368517737	5483	30063289	164837013587
5434	29528356	160457086504	5484	30074256	164927219904
5435	29539225	160545687875	5485	30085225	165017459125
5436	29550096	160634321856	5486	30096196	165107731256
5437	29560969	160722988453	5487	30107169	165198036303
5438	29571844	160811687672	5488	30118144	165288374272
5439	29582721	160900419519	5489	30129121	165378745169
5440	29593600	160989184000	5490	30140100	165469149000
5441	29604481	161077981121	5491	30151081	165559585771
5442	29615364	161166810888	5492	30162064	165650055488
5443	29626249	161255673307	5493	30173049	165740558157
5444	29637136	161344568384	5494	30184036	165831093784
5445	29648025	161433496125	5495	30195025	165921662375
5446	29658916	161522456536	5496	30206016	166012263936
5447	29669809	161611449623	5497	30217009	166102898473
5448	29680704	161700475392	5498	30228004	166193565992
5449	29691601	161789533849	5499	30239001	166284266499
5450	29702500	161878625000	5500	30250000	166375000000

R.	Sq.	Cu.
5501	30261001	166465766501
5502	30272004	166556566008
5503	30283009	166647398527
5504	30294016	166738264064
5505	30305025	166829162625
5506	30316036	166920094216
5507	30327045	167011058843
5508	30338064	167102056512
5509	30349081	167193087229
5510	30360100	167284151000
5511	30371121	167375247831
5512	30382144	167466377728
5513	30393169	167557540697
5514	30404196	167648736744
5515	30415225	167739965875
5516	30426256	167831228096
5517	30437289	167922523413
5518	30448324	168013851832
5519	30459361	168105213359
5520	40470400	168196608000
5521	30481441	168288035761
5522	30492484	168379496648
5523	30503529	168470990667
5524	30514576	168562517824
5525	30525625	168654078125
5526	30536676	168745671576
5527	30547729	168837298183
5528	30558784	168928957952
5529	30569841	169020650889
5530	30580900	169112377000
5531	30591961	169204136291
5532	30603024	169295928768
5533	30614089	169387754437
5534	30625156	169479613304
5535	30636225	169571505375
5536	30647296	169663430656
5537	30658369	169755389153
5538	30669444	169847380872
5539	30680521	169939405819
5540	30691600	170031464000
5541	30702681	170123555421
5542	30713764	170215680088
5543	30724849	170307838007
5544	30735936	170400029184
5545	30747025	170492253625
5546	30758116	170584511336
5547	30769209	170676802323
5548	30780304	170769126592
5549	30791401	170861484149
5550	30802500	170953875000
5551	30813601	171046299151
5552	30824704	171138756608
5553	30835809	171231247377
5554	30846916	171323771464
5555	30858025	171416328875
5556	30869136	171508919616
5557	30880249	171601543693
5558	30891364	171694201112
5559	30902481	171786891879
5560	30913600	171879616000
5561	30924721	171972373481
5562	30935844	172065164328
5563	30946969	172157988547
5564	30958096	172250846144
5565	30969225	172343737125
5566	30980356	172436661496
5567	30991489	172529619263
5568	31002624	172622610432
5569	31013761	172715635009
5570	31024900	172808693000
5571	31036041	172901784411
5572	31047184	172994909248
5573	31058329	173088067517
5574	31069476	173181259224
5575	31080625	173274484375
5575	31091776	173367742976
5577	31102929	173461035033
5578	31114084	173554360552
5579	31125241	173647719539
5580	31136400	173741112000
5581	31147561	173834537941
5582	31158724	173927997368
5583	31169889	174021490287
5584	31181056	174115016704
5585	31192225	174208576625
5586	31203396	174302170056
5587	31214569	174395797003
5588	31225744	174489457472
5589	31236921	174583151469
5590	31248100	174676879000
5591	31259281	174770640071
5592	31270464	174864434688
5593	31281649	174958262857
5594	31292836	175052124584
5595	31304025	175146019875
5596	31315216	175239948736
5597	31326409	175333911173
5598	31337604	175427907192
5599	31348801	175521936799
5600	31360000	175616000000

R	Sq.	Cu.	R.	Sq.	Cu.
5601	31371201	175710096801	5651	31933801	180457909451
5602	31382404	175804227208	5652	31945104	180553727808
5603	31393609	175898391227	5653	31956409	180649580077
5604	31404816	175992588864	5654	31967716	180745466264
5605	31416025	176086820125	5655	31979025	180841386375
5606	31427236	176181085016	5656	31990336	180937340416
5607	31438449	176275383543	5657	32001649	181033328393
5608	31449664	176369715712	5658	32012964	181129350312
5609	31460881	176464081529	5659	32024281	181225406179
5610	31472100	176558481000	5660	32035600	181321496000
5611	31483321	176652914131	5661	32046921	181417619781
5612	31494544	176747380928	5662	32058244	181513777528
5613	31505769	176841881397	5663	32069569	181609969247
5614	31516996	176936415544	5664	32080896	181706194944
5615	31528225	177030983375	5665	32092225	181802454625
5616	31539456	177125584896	5666	32103556	181898748296
5617	31550689	177220220113	5667	32114889	181995075963
5618	31561924	177314889032	5668	32126224	182091437632
5619	31573161	177409591659	5669	32137561	182187833309
5620	31584400	177504328000	5670	32148900	182284263000
5621	31595641	177599098061	5671	32160241	182380726711
5622	31606884	177693901848	5672	32171584	182477224448
5623	31618129	177788739367	5673	32182929	182573756217
5624	31629376	177883610624	5674	32194276	182670322024
5625	31640625	177978515625	5675	32205625	182766921875
5626	31651876	178073454376	5676	32216976	182863555776
5627	31663129	178168426883	5677	32228329	182960123733
5628	31674384	178263433152	5678	32239684	183056925752
5629	31685641	178358473189	5679	32251041	183153661839
5630	31696900	178453547000	5680	32262400	183250432000
5631	31708161	178548654591	5681	32273761	183347236241
5632	31719424	178643795968	5682	32285124	183444074568
5633	31730689	178738971137	5682	32296489	183540946987
5634	31741956	178834180104	5684	32307856	183637853504
5635	31753225	178929422875	5685	32319225	183734794125
5636	31764496	179024699456	5686	32330596	183831768856
5637	31775769	179120009853	5687	32341969	183928777703
5638	31787044	179215354072	5688	32353344	184025820672
5639	31798321	179310732119	5689	32364721	184122897769
5640	31809600	179406144000	5690	32376100	184220009000
5641	31820881	179501589721	5691	32387481	184317154371
5642	31832164	179597069288	5692	32398864	184414333888
5643	31843449	179692582707	5693	32410249	184511547557
5644	31854736	179788129984	5694	32421636	184608795384
5645	31866025	179883711125	5695	32433025	184706077375
5646	31877316	179979326136	5696	32444416	184803393536
5647	31888609	180074975023	5697	32455809	184900743873
5648	31899904	180170657792	5698	32467204	184998128392
5649	31911201	180266374449	5699	32478601	185095547099
5650	31922500	180362125000	5600	32490000	185193000000

R	Sq.	Cu.	R.	Sq.	Cu.
5701	32501401	185290487101	5751	33074001	190208579751
5702	32512804	185388008408	5752	33085504	190307819008
5703	32524209	185485563927	5753	33097009	190407092777
5704	32535616	185583153664	5754	33108516	190506401064
5705	32547025	185680777625	5755	33120025	190605743875
5706	32558436	185778435816	5756	33131536	190705121216
5707	32569849	185876128243	5757	33143049	190804533093
5708	32581264	185973854912	5758	33154564	190903979512
5709	32592681	186071615829	5759	33166081	191003460479
5710	32604100	186169411000	5760	33177600	191102976000
5711	32615521	186267240431	5761	33189121	191202526081
5712	32626944	186365104128	5762	33200644	191302110728
5713	32638369	186463002097	5763	33212169	191401729947
5714	32649796	186560934344	5764	33223696	191501383744
5715	32661225	186658900875	5765	33235225	191601072125
5716	32672656	186756901696	5766	33246756	191700795096
5717	32684089	186854936813	5767	33258289	191800552663
5718	32695524	186953006232	5768	33269824	191900344832
5719	32706961	187051109959	5769	33281361	192000171609
5720	32718400	187149248000	5770	33292900	192100033000
5721	32729841	187247420361	5771	33304441	192199929011
5722	32741284	187345627048	5772	33315984	192299859648
5723	32752729	187443868067	5773	33327529	192399824917
5724	32764176	187542143424	5774	33339076	192499824824
5725	32775625	187640453125	5775	33350625	192599859375
5726	32787076	187738797176	5776	33362176	192699928576
5727	32798529	187837175583	5777	33373729	192800032433
5728	32809984	187935588352	5778	33385284	192900170952
5729	32821441	188034035489	5779	33396841	193000344139
5730	32832900	188132517000	5780	33408400	193100552000
5731	32844361	188231032891	5781	33419961	193200794541
5732	32855824	188329583168	5782	33431524	193301071768
5733	32867289	188428167837	5783	33443089	193401383687
5734	32878756	188526786904	5784	33454656	193501730304
5735	32890225	188625440375	5785	33466225	193602111625
5736	32901696	188724128256	5786	33477796	193702527656
5737	32913169	188822850553	5787	33489369	193802978403
5738	32924644	188921607272	5788	33500944	193903463872
5739	32936121	189020398419	5789	33512525	194003984069
5740	32947600	189119224000	5790	33524100	194104539000
5741	32959081	189218084021	5791	33535681	194205128671
5742	32970564	189316978488	5792	33547264	194305753088
5743	32982049	189415907407	5793	33558849	194406412257
5744	32993536	189514870784	5794	33570436	194507106184
5745	33005025	189613868625	5795	33582025	194607834875
5746	33016516	189712900936	5796	33593616	194708598336
5747	33028009	189811967723	5797	33605209	194809396573
5748	33039504	189911068992	5798	33616804	194910229592
5749	33051001	190010204749	5799	33628401	195011097399
5750	33062500	190109375000	5800	33640000	195112000000

R.	Sq.	Cu.
5801	33651601	195212937401
5802	33663204	195313909608
5803	33674809	195414916627
5804	33686416	195515958464
5805	33698025	195617035125
5806	33709636	195718146616
5807	33721249	195819292943
5808	33732864	195920474112
5809	33744481	196021690129
5810	33756100	196122941000
5811	33767721	196224226731
5812	33779344	196325547328
5813	33790969	196426902797
5814	33802596	196528293144
5815	33814225	196629718375
5816	33825856	196731178496
5817	33837489	196832673513
5818	33849124	196934203432
5819	33860761	197035768259
5820	33872400	197137368000
5821	33884041	197239002661
5822	33895684	197340672248
5823	33907329	197442376767
5824	33918976	197544116224
5825	33930625	197645890625
5826	33942276	197747699976
5827	33953929	197849544283
5828	33965584	197951423552
5829	33977241	198053337789
5830	33988900	198155287000
5831	34000561	198257271191
5832	34012224	198359290368
5833	34023889	198461344537
5834	34035556	198563433704
5835	34047225	198665557875
5836	34058896	198767717056
5837	34070569	198869911253
5838	34082244	198972140472
5839	34093921	199074404719
5840	34105600	199176704000
5841	34117281	199279038321
5842	34128964	199381407688
5843	34140649	199483812107
5844	34152336	199586251584
5845	34164025	199688726125
5846	34175716	199791235736
5847	34187409	199893780423
5848	34109104	199996360192
5849	34210801	200098975049
5850	34222500	200201625000

R.	Sq.	Cu.
5851	34234201	200304310051
5852	34245904	200407030208
5853	34257609	200509785477
5854	34269316	200612575864
5855	34281025	200715401375
5856	34292736	200818262016
5857	34304449	200921157793
5858	34316164	201024088712
5859	34327881	201127054779
5860	34339600	201230056000
5861	34351321	201333092381
5862	34363044	201436163928
5863	34374769	201539270647
5864	34386496	201642412544
5865	34398225	201745589625
5866	34409956	201848801896
5867	34421689	201952049363
5868	34433424	202055332032
5869	34445161	202158649909
5870	34456900	202262003000
5871	34468641	202365391311
5872	34480384	202468814848
5873	34492129	202572273617
5874	34503876	202675767624
5875	34515625	202779296875
5876	34527376	202882861376
5877	34539129	202986461133
5878	34550884	203090096152
5879	34562641	203193766439
5880	34574400	203297472000
5881	34586161	203401212841
5882	34597924	203504988968
5883	34609689	203608800387
5884	34621456	203712647104
5885	34633225	203816529125
5886	34644996	203920446456
5887	34656769	204024399103
5888	34668544	204128387072
5889	34680321	204232410369
5890	34692100	204336469000
5891	34703881	204440562971
5892	34715664	204544692288
5893	34727449	204648856957
5894	34739236	204753056984
5895	34751025	204857292375
5896	34762816	204961563136
5897	34774609	205065869273
5898	34786404	205170210792
5899	34798201	205274587699
5900	34810000	205379000000

R	Sq.	Cu.	R.	Sq.	Cu.
5901	34821801	205483447701	5951	35414401	210751100351
5902	34833604	205587930808	5952	35426304	210857361408
5903	34845409	205692449327	5953	35438209	210963658177
5904	34857216	205797003264	5954	35450116	211069990664
5905	34869025	205901592625	5955	35462025	211176358875
5906	34880836	206006217416	5956	35473936	211282762816
5907	34892649	206110877643	5957	35485849	211389202493
5908	34904464	206215573312	5958	35497764	211495677912
5909	34916281	206320304429	5959	35509681	211602189079
5910	34928100	206425071000	5960	35521600	211708736000
5911	34939921	206529873031	5961	35533521	211815318681
5912	34951744	206634710528	5962	35545444	211921937128
5913	34963569	206739583497	5963	35557369	212028591347
5914	34975396	206844491944	5964	35569296	212135281344
5915	34987225	206949435875	5965	35581225	212242007125
5916	34999056	207054415296	5966	35593156	212348768696
5917	35010889	207159430213	5967	35605089	212455566063
5918	35022724	207264480632	5968	35617024	212562399232
5919	35034561	207369566559	5969	35628961	212669268209
5920	35046400	207474688000	5970	35640900	212776173000
5921	35058241	207579844961	5971	35652841	212883113611
5922	35070084	207685037448	5972	35664784	212990090048
5923	35081929	207790265467	5973	35676729	213097102317
5924	35093776	207895529024	5974	35688676	213204150424
5925	35105625	208000828125	5975	35700625	213311234375
5926	35117476	208106162776	5976	35712576	213418354176
5927	35129329	208211532983	5977	35724529	213525509833
5928	35141184	208316938752	5978	35736484	213632701352
5929	35153041	208422380089	5979	35748441	213739928739
5930	35164900	208527857000	5980	35760400	213847192000
5931	35176761	208633369491	5981	35772361	213954491141
5932	35188624	208738917568	5982	35784324	214061826168
5933	35200489	208844501237	5983	35796289	214169197087
5934	35212356	208950120504	5984	35808256	214276603904
5935	35224225	209055775375	5985	35820225	214384046625
5936	35236096	209161465856	5986	35832196	214491525256
5937	35247969	209267191953	5987	35844169	214599039803
5938	35259844	209372953672	5988	35856144	214706590272
5939	35271721	209478751019	5989	35868121	214814276669
5940	35283600	209584584000	5990	35880100	214921799000
5941	35295481	209690452621	5991	35892081	215029457271
5942	35307364	209796356888	5992	35904064	215137151488
5943	35319249	209902296807	5993	35916049	215244881657
5944	35331136	210008272384	5994	35928036	215352647784
5945	35343025	210114283625	5995	35940025	215460449875
5946	35354916	210220330536	5996	35952016	215568287936
5947	35366809	210326413123	5997	35964009	215676161973
5948	35378704	210432531392	5998	35976004	215784071992
5949	35390601	210538685349	5999	35988001	215892017999
5950	35402500	210644875000	6000	36000000	216000000000

R.	Sq.	Cu.
6001	36012001	216108018001
6002	36024004	216216072008
6003	36036009	216324162027
6004	36048016	216432288064
6005	36060025	216540450125
6006	36072036	216648648216
6007	36084049	216756882343
6008	36096064	216865152512
6009	36108081	216973458729
6010	36120100	217081801000
6011	36132121	217190179331
6012	36144144	217298593728
6013	36156169	217407044197
6014	36168196	217515530744
6015	36180225	217624053375
6016	36192256	217732612096
6017	36204289	217841206913
6018	36216324	217949837832
6019	36228361	218058504859
6020	36240400	218167208000
6021	36252441	218275947261
6022	36264484	218384722648
6023	36276529	218493534167
6024	36288576	218602381824
6025	36300625	218711265625
6026	36312676	218820185576
6027	36324729	218929141683
6028	36336784	219038133952
6029	36348841	219147162389
6030	36360900	219256227000
6031	36372961	219365327791
6032	36385024	219474464768
6033	36397089	219583637937
6034	36409156	219692847304
6035	36421225	219802092875
6036	36433296	219911374656
6037	36445369	220020692653
6038	36457444	220130046872
6039	36469521	220239437319
6040	36481600	220348864000
6041	36493681	220458326921
6042	36505764	220567826088
6043	36517849	220677361507
6044	36529936	220786933184
6045	36542025	220896541125
6046	36554116	221006185336
6047	36566209	221115865823
6048	36578304	221225582592
6049	36590401	221335335649
6050	36602500	221445125000

R.	Sq.	Cu.
6051	36614601	221554950651
6052	36626704	221664812608
6053	36638809	221774710877
6054	36650916	221884645464
6055	36663025	221994616375
6056	36675136	222104623616
6057	36687249	222214667193
6058	36699364	222324747112
6059	36711481	222434863379
6060	36723600	222545016000
6061	36735721	222655204981
6062	36747844	222765430328
6063	36759969	222875692047
6064	36772096	222985990144
6065	36784225	223096324625
6066	36796356	223206695496
6067	36808489	223317102763
6068	36820624	223427546432
6069	36832761	223538026509
6070	36844900	223648543000
6071	36857041	223759095911
6072	36869184	223869685248
6073	36881329	223980311017
6074	36893476	224090973224
6075	36905625	224201671875
6076	36917776	224312406976
6077	36929929	224423178533
6078	36942084	224533986552
6079	36954241	224644831039
6080	36966400	224755712000
6081	36978561	224866629441
6082	36990724	224977583368
6083	37002889	225088573787
6084	37015056	225199600704
6085	37027225	225310664125
6086	37039396	225421764056
6087	37051569	225532900503
6088	37063744	225644073472
6089	37075921	225755282969
6090	37088100	225866529000
6091	37100281	225977811571
6092	37112464	226089130688
6093	37124649	226200486357
6094	37136836	226311878584
6095	37149025	226423307375
6096	37161216	226534772736
6097	37173409	226646274673
6098	37185604	226757813192
6099	37197801	226869388299
6100	37210000	226981000000

R.	Sq.	Cu.	R.	Sq.	Cu.
6101	37222201	227092648301	6151	37834801	232721860951
6102	37234404	227204333208	6152	37847104	232835383808
6103	37246609	227316054727	6153	37859409	232948943577
6104	37258816	227427812864	6154	37871716	233062540264
6105	37271025	227539607625	6155	37884025	233176173865
6106	37283236	227651439016	6156	37896336	233289844416
6107	37295449	227763307043	6157	37908649	233403551893
6108	37307664	227875211712	6158	37920964	233517296312
6109	37319881	227987153029	6159	37933281	233631077679
6110	37332100	228099131000	6160	37945600	233744896000
6111	37344321	228211145631	6161	37957921	233858751281
6112	37356544	228323196928	6162	37970244	233972643528
6113	37368769	228435284897	6163	37982569	234086572747
6114	37380996	228547409544	6164	37994896	234200538944
6115	37393225	228659570875	6165	38007225	234314542125
6116	37405456	228771768896	6166	38019556	234428582296
6117	37417689	228884003613	6167	38031889	234542659463
6118	37429924	228996275032	6168	38044224	234656773632
6119	37442161	229108583159	6169	38056561	234770924809
6120	37454400	229220928000	6170	38068900	234885113000
6121	37466641	229333309561	6171	38081241	234999338211
6122	37478884	229445727848	6172	38093584	235113600448
6123	37491129	229558182867	6173	38105929	235227809317
6124	37503376	229670674624	6174	38118276	235342236024
6125	37515625	229783203125	6175	38130625	235456609375
6126	37527876	229895768376	6175	38142976	235571019776
6127	37540129	230008370383	6177	38155329	235685467233
6128	37552384	230121009152	6178	38167684	235799951752
6129	37564641	230233684689	6179	38180041	235914473339
6130	37576900	230346397000	6180	38192400	236029032000
6131	37589161	230459146091	6181	38204761	236143627741
6132	37601424	230571931968	6182	38217124	236258260568
6133	37613689	230684754637	6183	38229489	236372930487
6134	37625956	230797614104	6184	38241856	236487637504
6135	37638225	230910510375	6185	38254225	236602381625
6136	37650496	231023443456	6186	38266596	236717162856
6137	37662769	231136413353	6187	38278969	236831981203
6138	37675044	231249420072	6188	38291344	236946836672
6139	37687321	231362463619	6189	38303721	237061729269
6140	37699600	231475544000	6190	38316100	237176659000
6141	37711881	231588661221	6191	38328481	237291625871
6142	37724164	231701815288	6192	38340864	237406629888
6143	37736449	231815006207	6193	38353249	237521671057
6144	37748736	231928233984	6194	38365636	237636749384
6145	37761025	232041498625	6195	38378025	237751864875
6146	37773316	232154800136	6196	38390416	237867017536
6147	37785609	232268138523	6197	38402809	237982207373
6148	37797904	232381513792	6198	38415204	238097434392
6149	37810201	232494925949	6199	38427601	238212698599
6150	37822500	232608375000	6200	38440000	238328000000

R	Sq.	Cu.	R.	Sq.	Cu.
6201	38452401	238443338601	6251	39075001	244257831251
6202	38464804	238558714408	6252	39087504	244375075008
6203	38477209	238674127427	6253	39100009	244492356277
6204	38489616	238789577664	6254	39112516	244609675064
6205	38502025	238905065125	6255	39125025	244727031375
6206	38514436	239020589816	6256	39137536	244844425216
6207	38526849	239136151743	6257	39150049	244961856593
6208	38539264	239251750912	6258	39162564	245079325512
6209	38551681	239367387329	6259	39175081	245196831979
6210	38564100	239483061000	6260	39187600	245314376000
6211	38576521	239598771931	6261	39200121	245431957581
6212	38588944	239714520128	6262	39212644	245549576728
6213	38601369	239830309597	6263	39225169	245667233447
6214	38613796	239946128344	6264	39237696	245784927744
6215	38626225	240061988375	6265	39250225	245902659625
6216	38638656	240177885696	6266	39262756	246020429096
6217	38651089	240293820313	6267	39275289	246138236163
6218	38663524	240409792232	6268	39287824	246256080832
6219	38675961	240525801459	6269	39300361	246373963109
6220	38688400	240641848000	6270	39312900	246491883000
6221	38700841	240757931861	6271	39325441	246609840511
6222	38713284	240874053048	6272	39337984	246727835648
6223	38725729	240990211567	6273	39350529	246845868417
6224	38738176	241106407424	6274	39363076	246963938824
6225	38750625	241222640625	6275	39375625	247082046875
6226	38763076	241338911176	6276	39388176	247200192576
6227	38775529	241455219083	6277	39400729	247318375933
6228	38787984	241571564352	6278	39413284	247436596952
6229	38800441	241687946989	6279	39425841	247554855639
6230	38812900	241804367000	6280	39438400	247673152000
6231	38825361	241920824391	6281	39450961	247791486041
6232	38837824	242037319168	6282	39463524	247909857768
6233	38850289	242153851337	6283	39476089	248028267187
6234	38862756	242270420904	6284	39488656	248146714304
6235	38875225	242387027875	6285	39501225	248265199125
6236	38887696	242503672256	6286	39513796	248383721656
6237	38900169	242620354053	6287	39526369	248502281903
6238	38912644	242737073272	6288	39538944	248620879872
6239	38925121	242853829919	6289	39551521	248739515569
6240	38937600	242970624000	6290	39564100	248858189000
6241	38950081	243087455521	6291	39576681	248976900171
6242	38962564	243204324488	6292	39589264	249095649088
6243	38975049	243321230907	6293	39601849	249214435757
6244	38987536	243438174784	6294	39614436	249333260184
6245	39000025	243555156125	6295	39627025	249452122375
6246	39012516	243672174936	6296	39639616	249571022336
6247	39025009	243789231223	6297	39652209	249689960073
6248	39037504	243906324992	6298	39664804	249808935592
6249	39050001	244023456249	6299	39677401	249927948899
6250	39062500	244140625000	6300	39690000	250047000000

R.	Sq.	Cu.	R.	Sq.	Cu.
6301	39702601	250166088901	6351	40335201	256168861551
6302	39715204	250285215608	6352	40347904	256289886208
6303	39727809	250404380127	6353	40360609	256410948977
6304	39740416	250523582464	6354	40373316	256532049864
6305	39753025	250642822625	6355	40386025	256653188875
6306	39765636	250762100616	6356	40398736	256774366016
6307	39778249	250881416443	6357	40411449	256895581293
6308	39790864	251000770112	6358	40424164	257016834712
6309	39803481	251120161629	6359	40436881	257138126279
6310	39816100	251239591000	6360	40449600	257259456000
6311	39828721	251359058231	6361	40462321	257380823881
6312	39841344	251478563328	6362	40475044	257502229928
6313	39853969	251598106297	6363	40487769	257623674147
6314	39866596	251717687144	6364	40500496	257745156544
6315	39879225	251837305875	6365	40513225	257866677125
6316	39891856	251956962496	6366	40525956	257988235896
6317	39904489	252076657013	6367	40538689	258109832863
6318	39917124	252196389432	6368	40551424	258231468032
6319	39929761	252316159759	6369	40564161	258353141409
6320	39942400	252435968000	6370	40576900	258474853000
6321	39955041	252555814161	6371	40589641	258596602811
6322	39967684	252675698248	6372	40602384	258718390848
6323	39980329	252795620276	6373	40615129	258840217117
6324	39992976	252915580224	6374	40627876	258962081624
6325	40005625	253035578125	6375	40640625	259083984375
6326	40018276	253155613976	6376	40653376	259205925376
6327	40030929	253275687783	6377	40666129	259327904633
6328	40043584	253395799552	6378	40678884	259449922152
6329	40056241	253515949289	6379	40691641	259571977939
6330	40068900	253636137000	6380	40704400	259694072000
6331	40081561	253756362691	6381	40717161	259816204341
6332	40094224	253876626368	6382	40729924	259938374968
6333	40106889	253996928037	6383	40742689	260060583887
6334	40119556	254117267704	6384	40755456	260182831104
6335	40132225	254237645375	6385	40768225	260305116625
6336	40144896	254358061056	6386	40780996	260427440456
6337	40157569	254478514753	6387	40793769	260549802603
6338	40170244	254599006472	6388	40806544	260672203072
6339	40182921	254719536219	6389	40819321	260794641869
6340	40195600	254840104000	6390	40832100	260917119000
6341	40208281	254960709821	6391	40844881	261039634471
6342	40220964	255081353688	6392	40857664	261162188288
6343	40233649	255202035607	6393	40870449	261284780457
6344	40246336	255322755584	6394	40883236	261407410984
6345	40259025	255443513625	6395	40896025	261530079875
6346	40271716	255564309736	6396	40908816	261652787136
6347	40284409	255685143923	6397	40921609	261775532773
6348	40297104	255806016192	6398	40934404	261898316792
6349	40309801	255926926549	6399	40947201	262021139199
6350	40322500	256047875000	6400	40960000	262144000000

R	Sq.	Cu.	R.	Sq.	Cu.
6401	40972801	262266899201	6451	41615401	268460951851
6402	40985604	262389836808	6452	41628304	268585817408
6403	40998409	262512812827	6453	41641209	268710721677
6404	41011216	262635827264	6454	41654116	268835664664
6405	41024025	262758880125	6455	41667025	268960646375
6406	41036836	262881971416	6456	41679936	269085666816
6407	41049649	263005101143	6457	41692849	269210725993
6408	41062464	263128269312	6458	41705764	269335823912
6409	41075281	263251475929	6459	41718681	269460960579
6410	41088100	263374721000	6460	41731600	269586136000
6411	41100921	263498004531	6461	41744521	269711350181
6412	41113744	263621326528	6462	41757444	269836603128
6413	41126569	263744686997	6463	41770369	269961894847
6414	41139396	263868085944	6464	41783296	270087225344
6415	41152225	263991523375	6465	41796225	270212594625
6416	41165056	264114999296	6466	41809156	270338002696
6417	41177889	264238513713	6467	41822089	270463449563
6418	41190724	264362066632	6468	41835024	270588935232
6419	41203561	264485658059	6469	41847961	270714459709
6420	41216400	264609288000	6470	41860900	270840023000
6421	41229241	264732956461	6471	41873841	270965625111
6422	41242084	264856663448	6472	41886784	271091266048
6423	41254929	264980408967	6473	41899729	271216945817
6424	41267776	265104193024	6474	41912676	271342664424
6425	41280625	265228015625	6475	41925625	271468421875
6426	41293476	265351876776	6476	41938576	271594218176
6427	41306329	265475776483	6477	41951529	271720053333
6428	41319184	265599714752	6478	41964484	271845927352
6429	41332041	265723691589	6479	41977441	271971840239
6430	41344900	265847707000	6480	41990400	272097792000
6431	41357761	265971760991	6481	42003361	272223782641
6432	41370624	266095853568	6482	42016324	272349812168
6433	41383489	266219984737	6483	42029289	272475880587
6434	41396356	266344154504	6484	42042256	272601987904
6435	41409225	266468362875	6485	42055225	272728134125
6436	41422096	266592609856	6486	42068196	272854319256
6437	41434969	266716895453	6487	42081169	272980543303
6438	41447844	266841219672	6488	42094144	273106806272
6439	41460721	266965582519	6489	42107121	273233108169
6440	41473600	267089984000	6490	42120100	273359449000
6441	41486481	267214424121	6491	42133081	273485828771
6442	41499364	267338902888	6492	42146064	273612247488
6443	41512249	267463420307	6493	42159049	273738705157
6444	41525136	267587976384	6494	42172036	273865201784
6445	41538025	267712571125	6495	42185025	273991737375
6446	41550916	267837204536	6496	42198016	274118311936
6447	41563809	267961876623	6497	42211009	274244925473
6448	41576704	268086587392	6498	42224004	274371577992
6449	41589601	268211336849	6499	42237001	274498269499
6450	41602500	268336125000	6500	42250000	274625000000

R.	Sq.	Cu.
6501	42263001	274751769501
6502	42276004	274878578008
6503	42289009	275005425527
6504	42302016	275132312064
6505	42315025	275259237625
6506	42328036	275386202216
6507	42341049	275513205843
6508	42354064	275640248512
6509	42367081	275767330229
6510	42380100	275894451000
6511	42393121	276021610831
6512	42406144	276148809728
6513	42419169	276276047697
6514	42432196	276403324744
6515	42445225	276530640875
6516	42458256	276657996096
6517	42471289	276785390413
6518	42484324	276912823832
6519	42497361	277040296359
6520	42510400	277167808000
6521	42523441	277295358761
6522	42536484	277422948648
6523	42549529	277550577667
6524	42562576	277678245824
6525	42575625	277805953125
6526	42588676	277933699576
6527	42601729	278061485183
6528	42614784	278189309952
6529	42627841	278317173889
6530	42640900	278445077000
6531	42653961	278573019291
6532	42667024	278701000768
6533	42680089	278829021437
6534	42693156	278957081304
6535	42706225	279085180375
6536	42719296	279213318656
6537	42732369	279341496153
6538	42745444	279469712872
6539	42758521	279597968819
6540	42771600	279726264000
6541	42784681	279854598421
6542	42797764	279982972088
6543	42810849	280111385007
6544	42823936	280239837184
6545	42837025	280368328625
6546	42850116	280496859336
6547	42863209	280625429323
6548	42876304	280754038592
6549	42889401	280882687149
6550	42902500	281011375000

R.	Sq.	Cu.
6551	42915601	281140102151
6552	42928704	281268868608
6553	42941809	281397674377
6554	42954916	281526519464
6555	42968025	281655403875
6556	42981136	281784327616
6557	42994249	281913290693
6558	43007364	282042293112
6559	43020481	282171334879
6560	43033600	282300416000
6561	43046721	282429536481
6562	43059844	282558696328
6563	43072969	282687895547
6564	43086096	282817134144
6565	43099225	282946412125
6566	43112356	283075729496
6567	43125489	283205086263
6568	43138624	283334482432
6569	43151761	283463918009
6570	43164900	283593393000
6571	43178041	283722907411
6572	43191184	283852461241
6573	43204329	283982054517
6574	43217476	284111687224
6575	43230625	284241359375
6576	43243776	284371070976
6577	43256929	284500822033
6578	43270084	284630612552
6579	43283241	284760442539
6580	43296400	284890312000
6581	43309561	285020220941
6582	43322724	285150169368
6583	43335889	285280157287
6584	43349056	285410184704
6585	43362225	285540251625
6586	43375396	285670358056
6587	43388569	285800504003
6588	43401744	285930689472
6589	43414921	286060914469
6590	43428100	286191179000
6591	43441281	286321483071
6592	43454464	286451826688
6593	43467649	286582209857
6594	43480836	286712632584
6595	43494025	286843094875
6596	43507216	286973596736
6597	43520409	287104138173
6598	43533604	287234719192
6599	43546801	287365339799
6500	43560000	287496000000

R.	Sq.	Cu.
6601	43573201	287626699801
6602	43586404	287757439208
6603	43599609	287888218227
6604	43612816	288019036864
6605	43626025	288149895125
6606	43639236	288280793016
6607	43652449	288411730543
6608	43665664	288542707712
6609	43678881	288673724529
6610	43692100	288804781000
6611	43705321	288935877131
6612	43718544	289067012928
6613	43731769	289198188397
6614	43744996	289329403544
6615	43758225	289460658375
6616	43771456	289591952896
6617	43784689	289723287113
6618	43797924	289854661032
6619	43811161	289986074659
6620	43824400	290117528000
6621	43837641	290249021061
6622	43850884	290380553848
6623	43864129	290512126367
6624	43877376	290643738624
6625	43890625	290775390625
6626	43903876	290907082376
6627	43917129	291038813883
6628	43930384	291170585152
6629	43943641	291302396189
6630	43956900	291434247000
6631	43970161	291566137591
6632	43983424	291698067968
6633	43996689	291830038137
6634	44009956	291962048104
6635	44023225	292094097875
6636	44036496	292226187456
6637	44049769	292358316853
6638	44063044	292490486072
6639	44076321	292622695119
6640	44089600	292754944000
6641	44102881	292887232721
6642	44116164	292019561288
6643	44129449	293151929707
6644	44142736	293284337984
6645	44156025	293416786125
6646	44169316	293549274136
6647	44182609	293681802023
6648	44195904	293814369792
6649	44209201	293946977449
6650	44222500	294079625000
6651	44235801	294212312451
6652	44249104	294345039808
6653	44262409	294477807077
6654	44275716	294610614264
6655	44289025	294743461375
6656	44302336	294876348416
6657	44315649	295009275393
6658	44328964	295142242312
6659	44342281	295275249179
6660	44355600	295408296000
6661	44368921	295541382781
6662	44382244	295674509528
6663	44395569	295807676247
6664	44408896	295940882944
6665	44422225	296074129625
6666	44435556	296207416296
6667	44448889	296340742963
6668	44462224	296474109632
6669	44475561	296607516309
6670	44488900	296740963000
6671	44502241	296874449711
6672	44515584	297007976448
6673	44528929	297141543217
6674	44542276	297275150024
6675	44555625	297408796875
6676	44568976	297542483776
6677	44582329	297676210733
6678	44595684	297809977752
6679	44609041	297943784839
6680	44622400	298077632000
6681	44635761	298211519241
6682	44649124	298345446568
6683	44662489	298479413987
6684	44675856	298613421504
6685	44689225	298747469125
6686	44702596	298881556856
6687	44715969	299015684703
6688	44729344	299149852672
6689	44742721	299284060769
6690	44756100	299418309000
6691	44769481	299552597371
6692	44782864	299686925888
6693	44796249	299821294557
6694	44809636	299955703384
6695	44823025	300090152375
6696	44836416	300224641536
6697	44849809	300359170873
6698	44863204	300493740392
6699	44876601	300628350099
6700	44890000	300763000000

R.	Sq.	Cu.
6701	44903401	300897690101
6702	44916804	301032420408
6703	44930209	301167190927
6704	44943616	301302001664
6705	44957025	301436852625
6706	44970436	301571743816
6707	44983849	301706675243
6708	44997264	301841646912
6709	45010681	301976658829
6710	45024100	302111711000
6711	45037521	302246803431
6712	45050944	302381936128
6713	45064369	302517109097
6714	45077796	302652322344
6715	45091225	302787575875
6716	45104656	302922869696
6717	45118089	303058203813
6718	45131524	303193578232
6719	45144961	303328992959
6720	45158400	303464448000
6721	45171841	303599943361
6722	45185284	303735479048
6723	45198729	303871055067
6724	45212176	304006671424
6725	45225625	304142328125
6726	45239076	304278025176
6727	45252529	304413762583
6728	45265984	304549540352
6729	45279441	304685358489
6730	45292900	304821217000
6731	45306261	304957115891
6732	45319824	305093055168
6733	45333289	305229034837
6734	45346756	305365054904
6735	45360225	305501115375
6736	45373696	305637216256
6737	45387169	305773357553
6738	45400644	305909539272
6739	45414121	306045761419
6740	45427600	306182024000
6741	45441081	306318327021
6742	45454564	306454670488
6743	45468049	306591054407
6744	45481536	306727478784
6745	45495025	306863943625
6746	45508516	307000448936
6747	45522009	307136994723
6748	45535504	307273580992
6749	45549001	307410207749
6750	45562500	307546875000

R.	Sq.	Cu.
6751	45576001	307683582751
6752	45589504	307820331008
6753	45603009	307957119777
6754	45616516	308093949064
6755	45630025	308230818875
6756	35643536	308367729216
6757	45657049	308504680093
6758	45670564	308641671512
6759	45684081	308778703479
6760	45697600	308915776000
6761	45711121	309052889081
6762	45724644	309190042728
6763	45738169	309327236947
6764	45751696	309464471744
6765	45765225	309601747125
6766	45778756	309739063096
6767	45792289	309876419663
6768	45805824	310013816832
6769	45819361	310151254609
6770	45832900	310288733000
6771	45846441	310426252011
6772	45859984	310563811648
6773	45873529	310701411917
6774	45887076	310839052824
6775	45900625	310976734375
6776	45914176	311114456576
6777	45927729	311252219433
6778	45941284	311390022952
6779	45954841	311527867139
6780	45968400	311665752000
6781	45981961	311803677541
6782	45995524	311941643768
6783	46009089	312079650687
6784	46022656	312217698304
6785	46036225	312355786625
6786	46049796	312493915656
6787	46063369	312632085403
6788	46076944	312770295872
6789	46090521	312908547069
6790	46104100	313046839000
6791	46117681	313185171671
6792	46131264	313323545088
6793	46144849	313461959257
6794	46158436	313600414184
6795	46172025	313738909875
6796	46185616	313877446336
6797	46199209	314016023573
6798	46212804	314154641592
6799	46226401	314293300399
6800	46240000	314432000000

R.	Sq.	Cu.
6801	46253601	314570740401
6802	46267204	314709421608
6803	46280809	314848343627
6804	46294416	314987206464
6805	46308025	315126110125
6806	46321636	315265054616
6807	46335249	315404039943
6808	46348864	315543066112
6809	46362481	315682133129
6810	46376100	315821241000
6811	46389721	315960389731
6812	46403344	316099579328
6813	46416969	316238809797
6814	46430596	316378081144
6815	46444225	316517393375
6816	46457856	316656746496
6817	46471489	316796140513
6818	46485124	316935575432
6819	46498761	317075051259
6820	46512400	317214568000
6821	46526041	317354125661
6822	46539684	317493724248
6823	46553329	317633363767
6824	46566976	317773044224
6825	46580625	317912765625
6826	46594276	318052527976
6827	46607929	318192331283
6828	46621584	318332175552
6829	46635241	318472060789
6830	46648900	318611987000
6831	46662561	318751954191
6832	46676224	318891962368
6833	46689889	319032011537
6834	46703556	319172101704
6835	46717225	319312232875
6836	46730896	319452405056
6837	46744569	319592618253
6838	46758244	319732872472
6839	46771921	319873167719
6840	46785600	320013504000
6841	46799281	320153881321
6842	46812964	320294299688
6843	46826649	320434759107
6844	46840336	320575259584
6845	46854025	320715801125
6846	46867716	320856383736
6847	46881409	320997007423
6848	46895104	321137672192
6849	46908801	321278378049
6850	46922500	321419125000

R.	Sq.	Cu.
6851	46936201	321559913051
6852	46949904	321700742208
6853	46963609	321841612477
6854	46977316	321982523864
6855	46991025	322123476375
6856	47004736	322264470016
6857	47018449	322405504793
6858	47032164	322546580712
6859	47045881	322687697779
6860	47059600	322828856000
6861	47073321	322970055381
6862	47087044	323111295928
6863	47100769	323252577647
6864	47114496	323393900544
6865	47128225	323535264625
6866	47141956	323676669896
6867	47155689	323818116363
6868	47169424	323959604032
6869	47183161	324101132909
6870	47196900	324242703000
6871	47210641	324384314311
6872	47224384	324525966848
6873	47238129	324667660617
6874	47251876	324809395624
6875	47265625	324951171875
6876	47279376	325092989376
6877	47293129	325234848133
6878	47306884	325376748152
6879	47320641	325518689439
6880	47334400	325660672000
6881	47348161	325802695841
6882	47361924	325944760968
6883	47375689	326086867387
6884	47389456	326229015104
6885	47403225	326371204125
6886	47416996	326513434456
6887	47430769	326655706103
6888	47444544	326798019072
6889	47458321	326940373369
6890	47472100	327082769000
6891	47485881	327225205971
6892	47499664	327367684288
6893	47513449	327510203957
6894	47527236	327652764984
6895	47541025	327795367375
6896	47554816	327938011136
6897	47568609	328080696273
6898	47582404	328223422792
6899	47596201	328366190699
6900	47610000	328509000000

R.	Sq.	Cu.	R.	Sq.	Cu.
6901	47623801	328651850701	6951	48316401	335847303351
6902	47637604	328794742808	6952	48330304	335992273408
6903	47651409	328937676327	6953	48344209	336137285177
6904	47665216	329080651264	6954	48358116	336282338664
6905	47679025	329223667625	6955	48372025	336427433875
6906	47692836	329366725416	6956	48385936	336572570816
6907	47706649	329509824643	6957	48399849	336717749493
6908	47720464	329652965312	6958	48413764	336862969912
6909	47734281	329796147429	6959	48427681	337008232079
6910	47748100	329939371000	6960	48441600	337153536000
6911	47761921	330082636031	6961	48455521	337298881681
6912	47775744	330225942528	6962	48469444	337444269128
6913	47789569	330369290497	6963	48483369	337589698347
6914	47803396	330512679944	6964	48497296	337735169344
6915	47817225	330656110875	6965	48511225	337880682125
6916	47831056	330799583296	6966	48525156	338026236696
6917	47844889	330943097213	6967	48539089	338171833063
6918	47858724	331086652632	6968	48553024	338317471232
6919	47872561	331230249559	6969	48566961	338463151209
6920	47886400	331373888000	6970	48580900	338608873000
6921	47900241	331517567961	6971	48594841	338754636611
6922	47914084	331661289448	6972	48608784	338900442048
6923	47927929	331805052467	6973	48622729	339046289317
6924	47941776	331948857024	6974	48636676	339192178424
6925	47955625	332092703125	6975	48650625	339338109375
6926	47969476	332236590776	6976	48664576	339484082176
6927	47983329	332380519983	6977	48678529	339630096833
6928	47997184	332524490752	6978	48692484	339776153352
6929	48011041	332668503089	6979	48706441	339922251739
6930	48024900	332812557000	6980	48720400	340068392000
6931	48038761	332956652491	6981	48734361	340214574141
6932	48052624	333100789568	6982	48748324	340360798168
6933	48066489	333244968237	6983	48762289	340507064087
6934	48080356	333389188504	6984	48776256	340653371904
6935	48094225	333533450375	6985	48790225	340799721625
6936	48108096	333677753856	6986	48804196	340946113256
6937	48121969	333822098953	6987	48818169	341092546803
6938	48135844	333966485672	6988	48832144	341239022272
6939	48149721	334110914019	6989	48846121	341385539669
6940	48163600	334255384000	6990	48860100	341532099000
6941	48177481	334399895621	6991	48874081	341678700271
6942	48191364	334544448888	6992	48888064	341825343488
6943	48205249	334689043807	6993	48902049	341972028657
6944	48219136	334833680384	6994	48916036	342118755784
6945	48233025	334978358625	6995	48930025	342265524875
6946	48246916	335123078536	6996	48944016	342412335936
6947	48260809	335267840123	6997	48958009	342559188973
6948	48274704	335412643392	6998	48972004	342706083992
6949	48288601	335557488349	6999	48986001	342853020999
6950	48302500	335702375000	7000	49000000	343000000000

R.	Sq.	Cu.	R.	Sq.	Cu.
7001	49014001	343147021001	7051	49716601	350551753651
7002	49028004	343294084008	7052	49730704	350700924608
7003	49042009	343441189027	7053	49744809	350850137877
7004	49056016	343588336064	7054	49758916	350999393464
7005	49070025	343735525125	7055	49773025	351148691375
7006	49084036	343882756216	7056	49787136	351298031616
7007	49098049	344030029343	7057	49801249	351447414193
7008	49112064	344177344512	7058	49815364	351596839112
7009	49126081	344324701729	7059	49829481	351746306376
7010	49140100	344472101000	7060	49843600	351895816000
7011	49154121	344619542231	7061	49857721	352045367981
7012	49168144	344767025728	7062	49871844	352194962328
7013	49182169	344914551197	7063	49885969	352344599047
7014	49196196	345062118744	7064	49900096	352494278144
7015	49210225	345209728375	7065	49914225	352643999625
7016	49224256	345357380096	7066	49928356	352793763496
7017	49238289	345505073913	7067	49942489	352943569763
7018	49252324	345652809832	7068	49956624	353093418432
7019	49266361	345800587859	7069	49970761	353243309509
7020	49280400	345948408000	7070	49984900	353393243000
7021	49294441	346096270261	7071	49999041	353543218911
7022	49308484	346244174648	7072	50013184	353693237248
7023	49322529	346392121167	7073	50027329	353843298017
7024	49336576	346540109824	7074	50041476	353993401224
7025	49350625	346688140625	7075	50055625	354143546875
7026	49364676	346836213576	7076	50069776	354293734976
7027	49378729	346984328683	7077	50083929	354443965533
7028	39392784	347132485952	7078	50098084	354594238552
7029	49406841	347280685389	7079	50112241	354744554039
7030	49420900	347428927000	7080	50126400	354894912000
7031	49434961	347577210791	7081	50140561	355045312441
7032	49449024	347725536768	7082	50154724	355195755368
7033	49463089	347873904937	7083	50168889	355346240787
7034	49477156	348022315304	7084	50183056	355496768704
7035	49491225	348170767875	7085	50197225	355647339125
7036	49505296	348319262656	7086	50211396	355797952056
7037	49519369	348467799653	7087	50225569	355948607503
7038	49533444	348616378872	7088	50239744	356099305472
7039	49547521	348765000319	7089	50253921	356250045969
7040	49561600	348913664000	7090	50268100	356400829000
7041	49575681	349062369921	7091	50282281	356551654571
7042	49589764	349211118088	7092	50296464	356702522688
7043	49603849	349359908507	7093	50310649	356853433357
7044	49617936	349508741184	7094	50324836	357004386584
7045	49632025	349657616125	7095	50339025	357155382375
7046	49646116	349806533336	7096	50353216	357306420736
7047	49660209	349955492823	7097	50367409	357457501673
7048	49674304	350104494592	7098	50381604	357608625192
7049	49688401	350253538649	7099	50395801	357759791299
7050	49702500	350402625000	7100	50410000	357911000000

R.	Sq.	Cu.
7101	50424201	358062251301
7102	50438404	358213545208
7103	50452609	358364881727
7104	50466816	358516260864
7105	50481025	358667682625
7106	50495236	358819147016
7107	50509449	358970654043
7108	50523664	359122203712
7109	50537881	359273796029
7110	50552100	359425431000
7111	50566321	359577108631
7112	50580544	359728828928
7113	50594769	359880591897
7114	50608996	360032397544
7115	50623225	360184245875
7116	50637456	560336136896
7117	50651689	360488070613
7118	50665924	360640047032
7119	50680161	360792066159
7120	50694400	360944128000
7121	50708641	361096232561
7122	50722884	361248379848
7123	50737129	361400569867
7124	50751376	361552802624
7125	50765625	361705078125
7126	50779876	361857396376
7127	50794129	362009757383
7128	50808384	362162161152
7129	50822641	362314607689
7130	50836900	362467097000
7131	50851161	362619629091
7132	50865424	362772203968
7133	50879689	362924821637
7134	50893956	363077482104
7135	50908225	363230185375
7136	50922496	363382931456
7137	50936769	363535720353
7138	50951044	363688552072
7139	50965321	363841426619
7140	50979600	363994344000
7141	50993881	364147304221
7142	51008164	364300307288
7143	51022449	364453353207
7144	51036736	364606441984
7145	51051025	364759573625
7146	51065316	364912748136
7147	91079609	365065965523
7148	51093904	365219225792
7149	51108201	365372528949
7150	51122500	365525875000

R.	Sq.	Cu.
7151	51136801	365679263951
7152	51151104	365832695808
7153	51165409	365986170577
7154	51179716	366139688264
7155	51194025	366293248875
7156	51208336	366446852416
7157	51222649	366600498893
7158	51236954	366754188312
7159	51251271	366907920679
7160	51265600	367061696000
7161	51279921	367215514281
7162	51294244	367369375528
7163	51308569	367523279747
7164	51322896	367677226944
7165	51337225	367831217125
7166	51351556	367985250296
7167	51365889	368139326463
7168	51380224	368293445632
7169	51394561	368447607809
7170	51408900	368601813000
7171	51423241	368756061211
7172	51437584	368910352448
7173	51451929	369064686717
7174	51466276	369219064024
7175	51480625	369373484375
7176	51494976	369527947776
7177	51509329	369682454233
7178	51523684	369837003752
7179	51538041	369991596339
7180	51552400	370146232000
7181	51566761	370300910741
7182	51581124	370455632568
7183	51595489	370610397487
7184	51609856	370765205504
7185	51624225	370920056625
7186	51638596	371074950856
7187	51652969	371229888203
7188	51667344	371384868672
7189	51681721	371539892269
7190	51696100	371694959000
7191	51710481	371850068871
7192	51724864	372005221888
7193	51739249	372160418057
7194	51753636	372315657384
7195	51768025	372470939875
7196	51782416	372626265536
7197	51796809	372781634373
7198	51811204	372937046392
7199	51825601	373092501599
7200	51840000	373248000000

R.	Sq.	Cu.	R.	Sq.	Cu.
7201	51854401	373403541601	7251	52577001	381235834251
7202	51868804	373559126408	7252	52591504	381393587008
7203	51883209	373714754427	7253	52606009	381551383277
7204	51897616	373870425664	7254	52620516	381709223064
7205	51912025	374026140125	7255	52635025	381867106375
7206	51926436	374181897816	7256	52649536	382025033216
7207	51940849	374337698743	7257	52664049	382183003593
7208	51955264	374493542912	7258	52678564	382341017512
7209	51969681	374649430329	7259	52693081	382499074979
7210	51984100	374805361600	7260	52707600	382657176000
7211	51998521	374961334931	7261	52722121	382815320581
7212	52012944	375117352128	7262	52736644	382973508728
7213	52027369	375273412597	7263	52751169	383131740447
7214	52041796	375429516344	7264	52765696	383290015744
7215	52056225	375585663375	7265	52780225	383448334625
7216	52070656	375741853696	7266	52794756	383606697096
7217	52085089	375898087313	7267	52809289	383765103163
7218	52099524	376054364232	7268	52823824	383923552832
7219	52113961	376210684459	7269	52838361	384082046109
7220	52128400	376367048000	7270	52852900	384240583000
7221	52142841	376523454861	7271	52867441	384399163511
7222	52157284	376679905048	7272	52881984	384557787648
7223	52171729	376836398567	7273	52896529	384716455417
7224	52186176	376992935424	7274	52911076	384875166824
7225	52200625	377149515625	7275	52925625	385033921875
7226	52215076	377306139176	7276	52940176	385192720576
7227	52229529	377462806083	7277	52954729	385351562933
7228	52243984	377619516352	7278	52969284	385510448952
7229	52258441	377776269989	7279	52983841	385669378639
7230	52272900	377933067000	7280	52998400	385828352000
7231	52287361	378089907391	7281	53012961	385987369041
7232	52301824	378246791168	7282	53027524	386146429768
7233	52316289	378403718337	7283	53042089	386305534187
7234	52330756	378560688904	7284	53056656	386464682304
7235	52345225	378717702875	7285	53071225	386623874125
7236	52359696	378874760256	7286	53085796	386783109656
7237	52374169	379031861053	7287	53100369	386942388903
7238	52388644	379189005272	7288	53114944	387101711872
7239	52403121	379346192919	7289	53129521	387261078569
7240	52417600	379503424000	7290	53144100	387420489000
7241	52432081	379660698521	7291	53158681	387579943171
7242	52446564	379818016488	7292	53173264	387739441088
7243	52461049	379975377907	7293	53187849	387898982757
7244	52475536	380132782784	7294	53202436	388058568184
7245	52490025	380290231125	7295	53217025	388218197375
7246	52504516	380447722936	7296	53231616	388377870336
7247	52519009	380605258223	7297	53246209	388537587073
7248	52533504	380762836992	7298	53260804	388697347592
7249	52548001	380920459249	7299	53275401	388857151899
7250	52562500	381078125000	7300	53290000	389017000000

R.	Sq.	Cu.
7301	53304601	389176891901
7302	53319204	389336827608
7303	53333809	389496807127
7304	53348416	389656830464
7305	53363025	389816897625
7306	53377636	389977008616
7307	53392249	390137163443
7308	53406864	390297362112
7309	53421481	390457604629
7310	53436100	390617891000
7311	53450721	390778221231
7312	53465344	390938595328
7313	53479969	391099013297
7314	53494596	391259475144
7315	53509225	391419980875
7316	53523856	391580530496
7317	53538489	391741124013
7318	53553124	391901761432
7319	53567761	392062442759
7320	53582400	392223168000
7321	53597041	392383937161
7322	53611684	392544750248
7323	53626329	392705607267
7324	53640976	392866508224
7325	53655625	393027453125
7326	53670276	393188441976
7327	53684929	393349474783
7328	53699584	393510551552
7329	53714241	393671672289
7330	53728900	393832837000
7331	53743561	393994045691
7332	53758224	394155298368
7333	53772889	394316595037
7334	53787556	394477935704
7335	53802225	394639320375
7336	53816896	394800749056
7337	53831569	394962221753
7338	53846244	395123738472
7339	53860921	395285299219
7340	53875600	395446904000
7341	53890281	395608552821
7342	53904964	395770245688
7343	53919649	395931982607
7344	53934336	396093763584
7345	53949025	396255588625
7346	53963716	396417457736
7347	53978409	396579370923
7348	53993104	396741328192
7349	54007801	396903329549
7350	54022500	397065375000
7351	54037201	397227464551
7352	54051904	397389598208
7353	54066609	397551775977
7354	54081316	397713997864
7355	54096025	397876263875
7356	54110736	398038574016
7357	54125449	398200928293
7358	54140164	398363326712
7359	54154881	398525769279
7360	54169600	398688256000
7361	54184321	398850786881
7362	54199044	399013361928
7363	54213769	399175981147
7364	54228496	399338644544
7365	54243225	399501352125
7366	54257956	399664103896
7367	54272689	399826899863
7368	54287424	399989740032
7369	54302161	400152624409
7370	54316900	400315553000
7371	54331641	400478525811
7372	54346384	400641542848
7373	54361129	400804604117
7374	54375876	400967709624
7375	54390625	401130859375
7376	54405376	401294053376
7377	54420129	401457291633
7378	54434884	401620574152
7379	54449641	401783900939
7380	54464400	401947272000
7381	54479161	402110687341
7382	54493924	402274146968
7383	54508689	402437650887
7384	54523456	402601199104
7385	54538225	402764791625
7386	54552996	402928428456
7387	54567769	403092109603
7388	54582544	403255835072
7389	54597321	403419604869
7390	54612109	403583419000
7391	54626881	403747277471
7392	54641664	403911180288
7393	54656449	404075127457
7394	54671236	404239118984
7395	54686025	404403154875
7396	54700816	404567235136
7397	54715609	404731359773
7398	54730404	404895528792
7399	54745201	405059742199
7400	54760000	405224000000

R.	Sq.	Cu.	R.	Sq.	Cu.
7401	54774801	405388302201	7451	55517401	413660154851
7402	54789604	405552648808	7452	55532304	413826729408
7403	54804409	405717039827	7453	55547209	413993348677
7404	54819216	405881475264	7454	55562116	414160012664
7405	54834025	406045955125	7455	55577025	414326721375
7406	54848836	406210479416	7456	55591936	414493474816
7407	54863649	406375048143	7457	55606849	414660272993
7408	54878464	406539661312	7458	55621764	414827115912
7409	54893281	406704318929	7459	55636681	414994003579
7410	54908100	406869021000	7460	55651600	415160936000
7411	54922921	407033767531	7461	55666521	415327913181
7412	54937744	407198558528	7462	55681444	415494935128
7413	54952569	407363393997	7463	55696369	415662001847
7414	54967396	407528273944	7464	55711296	415829113344
7415	54982225	407693198375	7465	55726225	415996269625
7416	54997056	407858167296	7466	55741156	416163470696
7417	55011889	408023180713	7467	55756089	416330716563
7418	55026724	408188238632	7468	55771024	416498007232
7419	55041561	408353341059	7469	55785961	416665342709
7420	55056400	408518488000	7470	55800900	416832723000
7421	55071241	408683679461	7471	55815841	417000148111
7422	55086084	408848915448	7472	55830784	417167618048
7423	55100929	409014195967	7473	55845729	417335132817
7424	55115776	409179521024	7474	55860676	417502692424
7425	55130625	409344890625	7475	55875625	417670296875
7426	55145476	409510304776	7476	55890576	417837946176
7427	55160329	509675763483	7477	55905529	418005640333
7428	55175184	409841266752	7478	55920484	418173379352
7429	55190041	410006814589	7479	55935441	418341163239
7430	55204900	410172407000	7480	55950400	418508992000
7431	55219761	410338043991	7481	55965361	418676865641
7432	55234624	410503725568	7482	55983324	418844784168
7433	55249489	410669451737	7483	55995289	419012747587
7434	55264356	410835222504	7484	56010256	419180755904
7435	55279225	411001037875	7485	56025225	419348809125
7436	55294096	411166897856	7486	56040196	419516907256
7437	55308969	411332802453	7487	56055169	419685050303
7438	55323844	411498751672	7488	56070144	419853238272
7439	55338721	411664745519	7489	56085121	420021471169
7440	55353600	411830784000	7490	56100100	420189749000
7441	55368481	411996867121	7491	56115081	420358071771
7442	55383364	412162994888	7492	56130064	420526439488
7443	55398249	412329167307	7493	56145049	420694852157
7444	55413136	412495384384	7494	56160036	420863309784
7445	55428025	412661646125	7495	56175025	421031812375
7446	55442916	412827952536	7496	56190016	421200359936
7447	55457809	412994303623	7497	56205009	421368952473
7448	55472704	413160699392	7498	56220004	421537589992
7449	55487601	413327139849	7499	56235001	421706272499
7450	55502500	413493625000	7500	56250000	421875000000

R.	Sq.	Cu.
7501	56265001	422043772501
7502	56280004	422212590008
7503	56295009	422381452527
7504	56310016	422550360064
7505	56325025	422719312625
7506	56340036	422888310216
7507	56355049	423057352843
7508	56370064	423226440512
7509	56385081	423395573229
7510	56400100	423564751000
7511	56415121	423733973831
7512	56430144	423903241728
7513	56445169	424072554697
7514	56460196	424241912744
7515	56475225	424411315875
7516	56490256	424580764096
7517	56505289	424750257413
7518	56520324	424919795832
7519	56535361	425089379359
7520	56550400	425259008000
7521	56565441	425428681761
7522	56580484	425598400648
7523	56595529	425768164667
7524	56610576	425937973824
7525	56625625	426107828125
7526	56640676	426277727576
7527	56655729	426447672183
7528	56670784	426617661952
7529	56681841	426787696889
7530	56700900	426957777000
7531	56715961	427127902291
7532	56731024	427298072768
7533	56746089	427468288437
7534	56761156	427638549304
7535	56776225	427808855375
7536	56791296	427979206656
7537	56806369	428149603153
7538	56821444	428320044872
7539	56836521	428490531819
7540	56851600	428661064000
7541	56866681	428831641421
7542	56881764	429002264088
7543	56896849	429172932007
7544	56911936	429343645184
7545	56927025	429514403625
7546	56942116	429685207336
7547	56957209	429856056323
7548	56972304	430026950592
7549	56987401	430197890149
7550	57002500	430368875000

R.	Sq.	Cu.
7551	57017601	430539905151
7552	57032704	430710980608
7553	57047809	430882101377
7554	57062916	431053267464
7555	57078025	431224478875
7556	57093136	431395735616
7557	57108249	431567037693
7558	57123364	431738385112
7559	57138481	431909777879
7560	57153600	432081216000
7561	57168721	432252699481
7562	57183844	432424228328
7563	57198969	432595802547
7564	57214096	432767422144
7565	57229225	432939087125
7566	57244356	433110797496
7567	57259489	433282553263
7568	57274624	433454354432
7569	57289761	433626201009
7570	57304900	433798093000
7571	57320041	433970030411
7572	57335184	434142013248
7573	57350329	434314041517
7574	57365476	434486115224
7575	57380625	434658234375
7576	57395776	434830398976
7577	57410929	435002609033
7578	57426084	435174864552
7579	57441241	435347165539
7580	57456400	435519512000
7581	57471561	435691903941
7582	57486724	435864341368
7583	57501889	436036824287
7584	57517056	436209352704
7585	57532225	436381926625
7586	57547396	436554546056
7587	57562569	436727211003
7588	57577744	436899921472
7589	57592921	437072677469
7590	57608100	437245479000
7591	57623281	437418326071
7592	57638464	437591218688
7593	57653649	437764156857
7594	57668836	437937140584
7595	57684025	438110169875
7596	57699216	438283244736
7597	57714409	438456365173
7598	57729604	438629531192
7599	57744801	438802742799
7600	57760000	438976000000

R.	Sq.	Cu.
7601	57775201	439149302801
7602	57790404	439322651208
7603	57805609	439496045227
7604	57820816	439669484864
7605	57836025	439842970125
7606	57851236	440016501016
7607	57866449	440190077543
7608	57881664	440363699712
7609	57896881	440537367529
7610	57912100	440711081000
7611	57927321	440884840131
7612	57942544	441058644928
7613	57957769	441232495397
7614	57972996	441406391544
7615	57988225	441580333375
7616	58003456	441754320896
7617	58018689	441928354113
7618	58033924	442102433032
7619	58049161	442276557659
7620	580 4400	442450728000
7621	58079641	442624944061
7622	58094884	442799205848
7623	58110129	442973513367
7624	58125376	443147866624
7625	58140625	443322265625
7626	58155876	443496710376
7627	58171129	443671200883
7628	58186384	443845737152
7629	58201641	444020319189
7630	58216900	444194947000
7631	58232161	444369620591
7632	58247424	444544339968
7633	58262689	444719105137
7634	58277956	444893916104
7635	58293225	445068772875
7636	58308496	445243675456
7637	58323769	445418623853
7638	58339044	445593618072
7639	58354321	445768658119
7640	58369600	445943744000
7641	58384881	446118875721
7642	58400164	446294053288
7643	58415449	446469276707
7644	58430736	446644545984
7645	58446025	446819861125
7646	58461316	446995222136
7647	58476609	447170629023
7648	58491904	447346081792
7649	58507201	447521580449
7650	58522500	447697125000

R	Sq.	Cu.
7651	58537801	447872715451
7652	58553104	448048351808
7653	58568409	448224034077
7654	58583716	448399762264
7655	58599025	448575536375
7656	58614336	448751356416
7657	58629649	448927222393
7658	58644964	449103134312
7659	58660281	449279092179
7660	58675600	449455096000
7661	58690921	449631145781
7662	58706244	449807241528
7663	58721569	449983383247
7664	58736896	450159570944
7665	58752225	450335804625
7666	58767556	450512084296
7667	58782889	450688409963
7668	58798224	450864781632
7669	58813561	451041199309
7670	58828900	451217663000
7671	58844241	451394172711
7672	58859584	451570728448
7673	58874929	451747330217
7674	58890276	451923978024
7675	58905625	452100671875
7676	58920976	452277411776
7677	58936329	452454197733
7678	58951684	452631029752
7679	58967041	452807907839
7680	58982400	452984832000
7681	58997761	453161802241
7682	59013124	453338818568
7683	59028489	453515880987
7684	59043856	453692989504
7685	59059225	453870144125
7686	59074596	454047344856
7687	59089969	454224591703
7688	59105344	454401884672
7689	59120721	454579223769
7690	59136100	454756609000
7691	59151481	454934040371
7692	59166864	455111517888
7693	59182249	455289041557
7694	59192636	455466611384
7695	59217025	455644227375
7696	59228416	455821889536
7697	59243809	455999597873
7698	59259204	456177352392
7699	59274601	456355153099
7700	59290000	456533000000

R.	Sq.	Cu.	R.	Sq.	Cu.
7701	59305401	456710893101	7751	60078001	465664585751
7702	59320804	456888832408	7752	60093504	465844843008
7703	59336209	457066817927	7753	60109009	466025146777
7704	59351616	457244849664	7754	60124516	466205497064
7705	59367025	457422927625	7755	60140025	466385893875
7706	59382436	457601051816	7756	60155536	466566337216
7707	59397849	457779222243	7757	60171049	466746827093
7708	59413264	457957438912	7758	60186564	466927363512
7709	59428681	458135701829	7759	60202081	467107946479
7710	59444100	458314011000	7760	60217600	467288576000
7711	59459521	458492366431	7761	60233121	467469252081
7712	59474944	458670768128	7762	60248644	467649974728
7713	59490369	458849216097	7763	60264169	467830743947
7714	59505796	459027710344	7764	60279696	468011559744
7715	59521225	459206250875	7765	60295225	468192422125
7716	59536656	459384837696	7766	60310756	468373331096
7717	59552089	459563470813	7767	60326289	468554286663
7718	59567524	459742150232	7768	60341824	468735288832
7719	59582961	459920875959	7769	60357361	468916337609
7720	59598400	460099648000	7770	60372900	469097433000
7721	59613841	460278466361	7771	60388441	469278575011
7722	59629284	460457331048	7772	60403984	469459763648
7723	59644729	460636242067	7773	60419529	469640998917
7724	59660176	460815199424	7774	60435076	469822280824
7725	59675625	460994203125	7775	60450625	470003609375
7726	59691076	461173253176	7776	60466176	470184984576
7727	59706529	461352349583	7777	60481729	470366406433
7728	59721984	461531492352	7778	60497284	470547874952
7729	59737441	461710681489	7779	60512841	470729390139
7730	59752900	461889917000	7780	60528400	470910952000
7731	59768361	462069198891	7781	60543961	471092560541
7732	59783824	462248527168	7782	60559524	471274215768
7733	59799289	462427901837	7783	60575089	471455917687
7734	59814756	462607322904	7784	60590656	471637666304
7735	59830225	462786790375	7785	60606225	471819461625
7736	59845696	462966304256	7786	60621796	472001303656
7737	59861169	463145864553	7787	60637369	472183192403
7738	59876644	463325471272	7788	60652944	472365127872
7739	49892121	463505124419	7789	60668521	472547110069
7740	59907600	463684824000	7790	60684100	472729139000
7741	59923081	463864570021	7791	60699681	472911214671
7742	59938564	464044362488	7792	60715264	473093337088
7743	59954049	464224201407	7793	60730849	473275506257
7744	59969536	464404086784	7794	60746436	473457722184
7745	59985025	464584018625	7795	60762025	473639984875
7746	60000516	464763996936	7796	60777616	473822294336
7747	60016009	464944021723	7797	60793209	474004650575
7748	60031504	465124092992	7798	60808804	474187053592
7749	60047001	465304210749	7799	60824401	474369503399
7750	60062500	465484375000	7800	60840000	474552000000

R	Sq.	Cu.
7801	60855601	474734543401
7802	60871204	474917133608
7803	60886809	475099770627
7804	60902416	475282454464
7805	60918025	475465185125
7806	60933636	475647962616
7807	60949249	475830786943
7808	60964864	476013658112
7809	60980481	476196576129
7810	60996100	476379541000
7811	61011721	476562552731
7812	61027344	476745611328
7813	61042969	476928716797
7814	61058596	477111869144
7815	61074225	477295068375
7816	61089856	477478314496
7817	61105489	477661607513
7818	61121124	477844947432
7819	61136761	478028334259
7820	61152400	478211768000
7821	61168041	478395248661
7822	61183684	478578776248
7823	61199329	478762350767
7824	61214976	478945972224
7825	61230625	479129640625
7826	61246276	479313355276
7827	61261929	479497118283
7828	61277584	479680927552
7829	61293241	479864783789
7830	61308900	480048687000
7831	61324561	480232637191
7832	61340224	480416634368
7833	61355889	480600678537
7834	61371556	480784769704
7835	61387225	480968907875
7836	61402896	481153093056
7837	61418569	481337325253
7838	61434244	481521604472
7839	61449921	481705930719
7840	61465600	481890304000
7841	61481281	482074724321
7842	61496964	482259191688
7843	61512649	482443706107
7844	61528336	482628267584
7845	61544025	482812876125
7846	61559716	482997531736
7847	61575409	483182234423
7848	61591104	483366984192
7849	61606801	483551781049
7850	61622500	483736625000

R.	Sq.	Cu.
7851	61638201	483921516051
7852	61653904	484106454208
7853	61669609	484291439477
7854	61685316	484476471864
7855	61701025	484661551375
7856	61716736	484846678016
7857	61732449	485031851793
7858	61748164	485217072712
7859	61763881	485402340779
7860	61779600	485587656000
7861	61795321	485773018381
7862	61811044	485958427928
7863	61826769	486143884647
7864	61842496	486329388544
7865	61858225	486514939625
7866	61873956	486700537896
7867	61889689	486886183363
7868	61905424	487071876032
7869	61921161	487257615909
7870	61936900	487443403000
7871	61952641	487629237311
7872	61968384	487815118848
7873	61984129	488001047617
7874	61999876	488187023624
7875	62015625	488373046875
7876	62031376	488559117376
7877	62047129	488745235133
7878	62062884	488931400152
7879	62078641	489117612439
7880	62094400	489303872000
7881	62110161	489490178841
7882	62125924	489676532968
7883	62141689	489862934387
7884	62157456	490049383104
7885	62173225	490235879125
7886	62188996	490422422456
7887	62204769	490609013103
7888	62220544	490795651072
7889	62236321	490982336369
7890	62252100	491169069000
7891	62267881	491355848971
7892	62283664	491542676288
7893	62299449	491729550957
7894	62315236	491916472984
7895	62331025	492103442375
7896	62346816	492290459136
7897	62362609	492477523273
7898	62378404	492664634792
7899	62394201	492851793699
7900	62410000	493039000000

R.	Sq.	Cu.	R.	Sq.	Cu.
7901	62425801	493226253701	7951	63218401	502649506351
7902	62441604	493413554808	7952	63234304	502839185408
7903	62457409	493600903327	7953	63250209	503028912177
7904	62473216	493788299264	7954	63266116	503218686664
7905	62489025	493975742625	7955	63282025	503408508875
7906	62504837	494163233416	7956	63297936	503598378816
7907	62520649	494360771643	7957	63313849	503788296493
7908	62536464	494538357312	7958	63329764	503978261912
7909	62552281	494725990429	7959	63345681	504168275079
7910	62568100	494913671000	7960	63361600	504358336000
7911	62583921	495101399031	7961	63377521	504548444681
7912	62599744	495289174528	7962	63393444	504738601128
7913	62615569	495476997497	7963	63409369	504928805347
7914	62631396	495664867944	7964	63425296	505119057344
7915	62647225	495852785875	7965	63441225	505309357125
7916	62663056	496040751296	7966	63457156	505499704696
7917	62678889	496228764213	7967	63473089	505690100063
7918	62694724	496416824632	7968	63489024	505880543232
7919	62710561	496604932559	7969	63504961	506071034209
7920	62726400	496793088000	7970	63520900	506261573000
7921	62742241	496981290961	7971	63536841	506452159611
7922	62758084	497169541448	7972	63552784	506642794048
7923	62773929	497357839467	7973	63568729	506833476317
7924	62789776	497546185024	7974	63584676	507024206424
7925	62805625	497734578125	7975	63600625	507214984375
7926	62821476	497923018776	7976	63616576	507405810176
7927	62837329	498111506983	7977	63632529	507596683833
7928	62853184	498300042752	7978	63648484	507787605352
7929	62869041	498488626089	7979	63664441	507978574739
7930	62884900	498677257000	7080	63680400	508169592000
7931	62900761	498865935491	7981	63696361	508360657141
7932	62916624	499054661568	7982	63712324	508551770168
7933	62932489	499243435237	7983	63728289	508742931087
7934	62948356	499432256504	7984	63744256	508934139904
7935	62964225	499621125375	7985	63760225	509125396625
7936	62980096	499810041856	7986	63776196	509316701256
7937	62995969	499999005953	7987	63792169	509508053803
7938	63011844	500188017672	7988	63808144	509699454272
7939	63027721	500377077019	7989	63824121	509890902669
7940	63043600	500566184000	7990	63840100	510082399000
7941	63059481	500755338621	7991	63856081	510273943271
7942	63075364	500944540888	7992	63872064	510465535488
7943	63091249	501133790807	7993	63888049	510657175657
7944	63107136	501323088384	7994	63904036	510848863784
7945	63123025	501512433625	7995	63920025	511040599875
7946	63138916	501701826536	7996	63936016	511232383936
7947	63154809	501891267123	7997	63952009	511424215973
7948	63170704	502080755392	7998	63968004	511616095992
7949	63186601	502270291349	7999	63984001	511808023999
7950	63202500	502459875000	8000	64000000	512000000000

R.	Sq.	Cu.	R.	Sq.	Cu.
8001	64016001	512192024001	8051	64818601	521854556651
8002	64032004	512384096008	8052	64834704	522049036608
8003	64048009	512576216027	8053	64850809	522243564877
8004	64064016	512768384064	8054	64866916	522438141464
805	64080025	512960600125	8055	64883025	522632766375
8006	64096036	513152864216	8056	64899136	522827439616
8007	64112049	513345176343	8057	64915249	523022161193
8008	64128064	513537536512	8058	64931364	523216931112
8009	64144081	513729944729	8059	64947481	523411749379
8010	64160100	513922401000	8060	64963600	523606616000
8011	64176121	514114905331	8061	64979721	523801530981
8012	64192144	514307457728	8062	64995844	523996494328
8013	64208169	514500058197	8063	65011969	524191506047
8014	64224196	514692706744	8064	65028096	524386566144
8015	64240225	514885403375	8065	65044225	524581674625
8016	64256256	515078148096	8066	65060356	524776831496
8017	64272289	515270940913	8067	65076489	524972036763
8018	64288324	515463781832	8068	65092624	525167290432
8019	64304361	515656670859	8069	65108761	525362592509
8020	64320400	515849608000	8070	65124900	525557943000
8021	64336441	516042593261	8071	65141041	525753341911
8022	64352484	516235626648	8072	65157184	525948789248
8023	64368529	516428708167	8073	65173329	526144285017
8024	64384576	516621837824	8074	65189476	526339829224
8025	64400625	516815015625	8075	65205625	526535421875
8026	64416676	517008241576	8076	65221776	526731062976
8027	64432729	517201515683	8077	65237929	526926752533
8028	64448784	517394837952	8078	65254084	527122490552
8029	64464841	517588208389	8079	65270241	527318277039
8030	64480900	517781627000	8080	65286400	527514112000
8031	64496961	517975093791	8081	65302561	527709995441
8032	64513024	518168608768	8082	65318724	527905927368
8033	64529089	518362171937	8083	65334889	528101907787
8034	64545156	518555783304	8084	65351056	528297936704
8035	64561225	518749442875	8085	65367225	528494014125
8036	64577296	518943150656	8086	65383396	528690140056
8037	64593369	519136906653	8087	65399569	528886314503
8038	64609444	519330710872	8088	65415744	529082537472
8039	64625521	519524563319	8089	65431921	529278808959
8040	64641600	519718464000	8090	65448100	529475129000
8041	64657681	519912412921	8091	65464281	529671497571
8042	64673764	520106410088	8092	65480464	529867914688
8043	64689849	520300455507	8093	65496649	530064380357
8044	64705936	520494549184	8094	65512836	530260894584
8045	64722025	520688691125	8095	65529025	530457457375
8046	64738116	520882881336	8096	65545216	530654068736
8047	64754209	521077119823	8097	65561409	530850728673
8048	64770304	521271406592	8098	65577604	531047437192
8049	64786401	521465741649	8099	65593801	531244194299
8050	64802500	521660125000	8100	65610000	531441000000

R.	Sq.	Cu.	R.	Sq.	Cu.
8101	65626201	531637854301	8151	66438801	541542666951
8102	65642404	531834757208	8152	66455104	541742007808
8103	65658609	532031708727	8153	66471409	541941397577
8104	65676816	532228708864	8154	66487716	542140836264
8105	65691025	532425757625	8155	66504025	542340323875
8106	65707236	532622855016	8156	66520336	542539860416
8107	65723449	532820001043	8157	66536649	542739445893
8108	65739664	533017195712	8158	66552964	542939080312
8109	65755881	533214439029	8159	66569281	543138763679
8110	65772100	533411731000	8160	66585600	543338496000
8111	65788321	533609071631	8161	66601921	543538277281
8112	65804544	533806460928	8162	66618244	543738107528
8113	65820769	534003898897	8163	66634569	543937986747
8114	65836996	534201385544	8164	66650896	544137914944
8115	65853225	534398920875	8165	66667225	544337892125
8116	65869456	534596504896	8166	66683556	544537918296
8117	65885689	534794137613	8167	66699889	544737993463
8118	65901924	534991819032	8168	66716224	544838117632
8119	65918161	535189549159	8169	66732561	545138290809
8120	65934400	535387328000	8170	66748900	545338513000
8121	65950641	535585155561	8171	66765241	545538784211
8122	65966884	535783031848	8172	66781584	545739104448
8723	65983129	535980956867	8173	66797929	545939473717
8124	65999376	536178930624	8174	66814276	546139892024
8125	66015625	536376953125	8175	66830625	546340359375
8126	66031876	536575024376	8176	66846976	546540875776
8127	66048129	536773144383	8177	66863329	546741441233
8128	66064384	536971313152	8178	66879684	546942055752
8129	66080641	537169530689	8179	66896041	547142719339
8130	66096900	537367797000	8180	66912400	547343432000
8131	66113161	537566112091	8181	66928761	547544193741
8132	66129424	537764475968	8182	66945124	547745004568
8133	66145689	537962888637	8183	66961489	547945864487
8134	66161956	538161350104	8184	66977856	548146773504
8135	66178225	538359860375	8185	66994225	548347731625
8136	66194496	538558419456	8186	67010596	548548738856
8137	66210769	538757027353	8187	67026969	548749795203
8138	66227044	538955684072	8188	67043344	548950900672
8139	66243321	539154389619	8189	67059721	549152055269
8140	66259600	539353144000	8190	67076100	549353259000
8141	66275881	539551947221	8191	67092481	549554511871
8142	66292164	539750799288	8192	67108864	549755813888
8143	66308449	539949700207	8193	67125249	549957165057
8144	66324736	540148649984	8194	67141636	550158565384
8145	66341025	540347648625	8195	67158025	550360014875
8146	66357316	540546696136	8196	67174416	550561513536
8147	66373609	540745792523	8197	67190809	550763061373
8148	66389904	540944937792	8198	67207204	550964658392
8149	66406201	541144131949	8199	67223601	551166304599
8150	66422500	541343375000	8200	67240000	551368000000

R.	Sq.	Cu.	R.	Sq.	Cu.
8201	67256401	551569744601	8251	68079001	561719837251
8202	67272804	551771538408	8252	68095504	561924099008
8203	67289209	551973381427	8253	68112009	562128410277
8204	67395616	552175273664	8254	68128516	562332771064
8205	67322025	552377215125	8255	68145025	562537181375
8206	67338436	552579205816	8256	68161536	562741641216
8207	67354849	552781245743	8257	68178049	562946150593
8208	67371264	552983334912	8258	68194564	563150709512
8209	67387681	553185473329	8259	68211081	563355317979
8210	67404100	553387661000	8260	68222600	563559976000
8211	67420521	553589897931	8261	68244121	563764683581
8212	67436944	553792184128	8262	68260644	563969440728
8213	67453369	553994519597	8263	68277169	564174247447
8214	67469796	554196904344	8264	68293696	564379103744
8215	67486225	554399338375	8265	68310225	564584009625
8216	67502656	554601821696	8266	68326756	564788965096
8217	67519089	554804354313	8267	68343289	564993970163
8218	67535524	555006936232	8268	68359824	565199024832
8219	67551961	555209567459	8269	68376361	565404129109
8220	67568400	555412248000	8270	68392900	565609283000
8221	67584841	555614977861	8271	68409441	565814486511
8222	67601284	555817757048	8272	68425984	266019739648
8223	67617729	556020585567	8273	68442529	566225042417
8224	67634176	556223463424	8274	68459076	566430394824
8225	67650625	556426390625	8275	68475625	566635796875
8226	67667076	556629367176	8276	68492176	566841248576
8227	67683529	556832393083	8277	68508729	567046749933
8228	67699984	557035468352	8278	68525284	567252300952
8229	67716441	557238592989	8279	68541841	567457901639
8230	67732900	557441767000	8280	68558400	567663552000
8231	67749361	557644990391	8281	68574961	567869252041
8232	67765824	557848263168	8282	68591524	568075001768
8233	67782289	558051585337	8283	68608089	568280801187
8234	67798756	558254956904	8284	68624656	568486650304
8235	67815225	558458377875	8285	68641225	568692549125
8236	67831696	558661848256	8286	68657796	568898497656
8237	67848169	558865368053	8287	68674369	569104495903
8238	67864644	559068937272	8288	68690944	569310543872
8239	67881121	559272555919	8289	68707521	569516641569
8240	67897600	559476224000	8290	68724100	569722789000
8241	67914081	559679941521	8291	68740681	569928986171
8242	67930564	559883708488	8292	68757264	570135233088
8243	67947049	560087524907	8293	68773849	570341529757
8244	67963536	560291390784	8294	68790436	570547876184
8245	67980025	560495306125	8295	68807025	570754272375
8246	67996516	560699270936	8296	68823616	570960718336
8247	68013009	560903285223	8297	68840209	571167214073
8248	68029504	561107348992	8298	68856804	571373759592
8249	68046001	561311462249	8299	68873401	571580354899
8250	68062500	561515625000	8300	68890000	571787000000

R.	Sq.	Cu.
8301	68906601	571993694901
8302	68923204	572200439608
8303	68939809	572407234127
8304	68956416	572614078464
8305	68973025	572820972625
8306	68989636	573027916616
8307	69006249	573234910443
8308	69022864	573441954112
8309	69039481	573649047629
8310	69056100	573856191000
8311	69072721	574063384231
8312	69089344	574270627328
8313	69105969	574477920297
8314	69122596	574685263144
8315	69139225	574892655875
8316	69155856	575100098496
8317	69172489	575307591013
8318	69189124	575515133432
8319	69205761	575722725759
8320	69222400	575930368000
8321	69239041	576138060161
8322	69255684	576345802248
8323	69272329	576553594267
8324	69288976	576761436224
8325	69305625	576969328125
8326	69322276	577177269976
8327	69338929	577385261783
8328	69355584	577593303552
8329	69372241	577801395289
8330	69388900	578009537000
8331	69405561	578217728691
8332	66422224	578425970368
8333	69438889	578634262037
8334	69455556	578842603704
8335	69472225	579050995475
8336	69488896	579259437056
8337	69505569	579467928753
8338	69522244	579676470472
8339	69538921	579885062219
8340	69555600	580093704000
8341	69572281	580302395821
8342	69588964	580511137688
8343	69605649	580719929607
8344	69622336	580928771584
8345	69639025	581137663625
8346	69655716	581346605736
8347	69672409	581555597923
8348	69689104	581764640192
8349	69705801	581973732549
8350	69722500	582182875000
8351	69739201	582392067551
8352	69755904	582601310208
8353	69772609	582810602977
8354	69789316	583019945864
8355	69806025	583229338875
8356	69822736	583438782016
8357	69839449	583648275293
8358	69856164	583857818712
8359	69872881	584067412279
8360	6988 9600	584277056000
8361	69906321	584486749881
8362	69923044	584696493928
8363	69939769	584906288147
8364	69956496	585116132544
8365	69973225	585326027125
8366	69989956	585535971896
8367	70006689	585745966863
8368	70023424	585956012032
8369	70040161	586166107409
8370	70056900	586316253000
8371	70073641	586586448811
8372	70090384	586796694848
8373	70107129	587006991117
8374	70123876	587217337624
8375	70140625	587427734375
8376	70157376	587638181376
8377	70174129	587848678633
8378	70190884	588059226152
8379	70207641	588269823939
8380	70224400	588480472000
8381	70241161	588691170341
8382	70257924	588901918968
8383	70274689	589112717887
8384	70291456	589323567101
8385	70308225	589534466625
8386	70324996	589745416456
8387	70341769	589956416603
8388	70358544	590167467072
8389	70375321	590378567869
8390	70392100	590589719000
8391	70408881	590800920471
8392	70425664	591012172288
8393	70442449	591223474457
8394	70459236	591434826984
8395	70476025	591646229875
8396	70492816	591857683136
8397	70509609	592060186773
8398	70526404	592280740792
8399	70543201	592492345199
8400	70560000	592704000000

R.	Sq.	Cu.	R.	Sq.	Cu.
8401	70576801	592915705201	8451	71419401	603565357851
8402	70593604	593127460808	8452	71436304	603779641408
8403	70610409	593339266827	8453	71453209	603993975677
8404	70627216	593551123264	8454	71470116	604208360664
8405	70644025	593763030125	8455	71487025	604422796375
8406	70660836	593974987416	8456	71503936	604637282816
8407	70677649	594186995143	8457	71520849	604851819993
8408	70694464	594399053312	8458	71537764	605066407912
8409	70711281	594611161929	8459	71554681	605281046579
8410	70728100	594823321000	8460	71571600	605495736000
8411	70744921	595035530531	8461	71588521	605710476181
8412	70761744	595247790528	8462	71605444	605925267128
8413	70778569	595460100997	8463	71622369	606140108847
8414	70795396	595672461944	8464	71639296	606355001344
8415	70812225	595884873375	8465	71656225	606569944025
8416	70829056	596097335296	8466	71673156	606784938696
8417	70845889	596309847713	8467	71690089	606999983563
8418	70862724	596522410632	8468	71707024	607215079232
8419	70879561	596735024059	8469	71723961	607430225709
8420	70896400	596947688000	8470	71740900	607645423000
8421	70913241	597160402461	8471	71757841	607860671111
8422	70930084	597373167448	8472	71774784	608075970048
8423	70940929	597585982967	8473	71791729	608291319817
8424	70963776	597798849024	8474	71808676	608506720424
8425	70980625	598011765625	8475	71825625	608722171875
8426	70997476	598224732776	8476	71842576	608937674176
8427	71014329	598437750483	8477	71859529	609153227333
8428	71031184	598650818752	8478	75876484	609368831352
8429	71048041	598863937589	8479	71893441	609584486239
8430	71064900	599077107000	8480	71910400	609800192000
8431	71081761	599290326991	8481	71927361	610015948641
8432	71098624	599503597568	8482	71944324	610231756168
8433	71115489	599716918737	8483	71961289	610447614587
8434	71132356	599930290504	8484	71978256	610663523904
8435	71149225	600143712875	8485	71995225	610879484125
8436	71166096	600357185856	8486	72012196	611095495256
8437	71182969	600570709453	8487	72029169	611311557303
8438	71199844	600784283672	8488	72046144	611527670272
8439	71216721	600997908519	8489	72063121	611743834169
8440	71233600	601211584000	8490	72080100	611960049000
8441	71250481	601425310121	8491	72097081	612176314771
8442	71267364	601639086888	8492	72114064	612392631488
8443	71284249	601852914307	8493	72131049	612608999157
8444	71301136	602066792384	8494	72148036	612825417784
8445	71318025	602280721125	8495	72165025	613041887375
8446	71334916	602494700536	8496	72182016	613258407936
8447	71351809	602708730623	8497	72199009	613474979473
8448	71368704	602922811392	8498	72216004	613691601992
8449	71385601	603136942849	8499	72233001	613908275499
8450	71402500	603351125000	8500	72250000	614125000000

R.	Sq.	Cu.	R.	Sq.	Cu.
8501	72267001	614341775501	8551	73119601	625245708151
8502	72284004	614558602008	8552	73136704	625465092608
8503	72301009	614775479527	8553	73153809	625684528377
8504	72318016	614992408064	8554	73170916	625904015464
8505	72335025	615209387625	8555	73188025	626123553875
8506	77352036	615426418216	8556	73205136	626343143616
8507	77369049	615643499843	8557	73222249	626562784693
8508	77386064	615860632512	8558	73239364	626782477112
8509	77403081	616077816229	8559	73256481	627002220879
8510	72420100	616295051000	8560	73273600	627222016000
8511	72437121	616512336831	8561	73290721	627441862481
8512	72454144	616729673728	8562	73307844	627661760328
8513	72471169	616947061697	8563	73324969	627881709547
8514	72488196	617164500744	8564	73342096	628101710144
8515	72505225	617381990875	8565	73359225	628321762125
8516	72522256	617599532096	8566	73376356	628541865496
8517	72539289	617817124413	8567	73393489	628762020263
8518	72556324	618034767832	8568	73410624	628982226432
8519	72573361	618252462359	8569	73427761	629202484009
8520	72590400	618470208000	8570	73444900	629422793000
8521	72607441	618688004761	8571	73462041	629643153411
8522	72624484	618905852648	8572	73479184	629863565248.
8523	72641529	619123751667	8573	73496329	630084028517
8524	72658576	619341701824	8574	73513476	630304543224
8525	72675625	619559703125	8575	73530625	630525109375
8526	72692676	619777755576	8576	73547776	630745726976
8527	72709729	619995859183	8577	73564929	630966396033
8528	72726784	620214013952	8578	73582084	631187116552
8529	72743841	620432219889	8579	73599241	631407888539
8530	72760900	620650477000	8580	73616400	631628712000
8531	72777961	620868785291	8581	73633561	631849586941
8532	72795024	621087144768	8582	73650724	632070513368
8533	72812089	621305555437	8583	73667889	632291491287
8534	72829156	621524017304	8584	73685056	632512520704
8535	72846225	621742530375	8585	73702225	632733601625
8536	72863296	621961094656	8586	73710396	632954734056
8537	72880369	622179710153	8587	73736569	633175918003
8538	72897444	622398376872	8588	73753744	633397153472
8539	72914521	622617094819	8589	73770921	633618440469
8540	72931600	622835864000	8590	73788100	633839779000
8541	72948681	623054684421	8591	73805281	634061169071
8542	72965764	623273556088	8592	73822464	634282610688
8543	72982849	623492479007	8593	73839649	634504103857
8544	72999936	623711453184	8594	73856836	634725648584
8545	73017025	623930478625	8595	73874025	634947244875
8546	73034116	624149555336	8596	73891216	635168892736
8547	73051209	624368683323	8597	73908409	635390592173
8548	73068304	624587862592	8598	73925604	635612343192
8549	73085401	624807093149	8599	73942801	635834145799
8550	73102500	625026375000	8600	73960000	636056000000

R.	Sq	Cu.	R.	Sq.	Cu.
8601	73977201	636277905801	8651	74839801	647439118451
8602	73994404	636499863208	8652	74857104	647663663808
8603	74011609	636721872227	8653	74874409	647888261077
8604	74028816	636943932864	8654	74891716	648112910264
8605	74046025	637166045125	8655	74909025	648337611375
8606	74063236	637388209016	8656	74926336	648562364416
8607	74080449	637610424543	8657	74943649	648787169393
8608	74097664	637832691712	8658	74960964	649012026312
8609	74114881	638055010529	8659	74978281	649236935179
8610	74132100	638277381000	8660	74995600	649461896000
8611	74149321	638499803131	8661	75012921	649686908781
8612	74166544	638722276928	8662	75030244	649911973528
8613	74183769	638944802397	8663	75047569	6501370 ,0247
8614	74200996	639167379544	8664	75064896	650362258944
8615	74218225	639390008375	8665	75082225	650587479625
8616	74235456	639612688896	8666	75099556	650812752296
8617	74252689	639835421113	8667	75116889	651038076963
8618	74269924	640058205032	8668	75134224	651263453632
8619	74287161	640281040659	8669	75151561	651488882309
8620	74304400	640503928000	8670	75 68900	651714363000
8621	74321641	640726867061	8671	75186241	651939895711
8622	74338884	640949857848	8672	75203584	652165480448
8623	74356129	641172900367	8673	75220929	652391117217
8624	74373376	641395994624	8674	75238276	652616806024
8625	74390625	641619140625	8675	75255625	652842546875
8926	74407876	641842338376	8676	75272976	653068339776
8627	74425129	642065587883	8677	75290329	653294184733
8628	74442384	642288889152	8678	75307684	653520081752
8629	74459641	642512242189	8679	75325041	653746030839
4630	74476900	642735647000	8680	75342400	653972032000
8631	74494161	642959103591	8681	75359761	654198085241
8632	74511424	643182611968	8682	75377124	654424190568
8633	74528689	643406172137	8683	75394489	654650347987
8634	74545956	643629784104	8684	75411856	654876557504
8635	74563225	643853447875	8685	75429225	655102819125
8636	74580496	644077163456	8686	75446596	655329132856
8637	74597769	644300930853	8687	75463969	655555498703
8638	74615044	644524750072	8688	75481344	655781916672
8639	74632321	644748621119	8689	75498721	656008386769
8640	74649600	644972544000	8690	75516100	656234909000
8641	74666881	645196518721	8691	75533481	656461483371
8642	74684164	945420545288	8692	75550864	656688109888
8643	74701449	645644623707	8693	75568249	656914788557
8644	74718736	945868753984	8694	75585636	657141519384
8645	74736025	646092936125	8695	75603025	657368302375
8646	74753316	646317170136	8696	15620416	657595137536
8647	74770609	646541456023	8997	75637809	657822024873
8648	74787904	646765793792	8698	75655204	358048964392
8649	74805201	646990183449	8699	75672601	658275956099
8650	74822500	647214625000	8700	75690000	658503000000

R.	Sq.	Cu.	R.	Sq.	Cu.
8701	75707401	658730096101	8751	76580001	670151588751
8702	75724804	658957244408	8752	76597504	670381355008
8703	75742209	659184444927	8753	76615009	670611173777
8704	75759616	659411697664	8754	76632516	670841045064
8705	75777025	659639002625	8755	76650025	671070968875
8706	75784436	659866359816	8756	76667536	671300945216
8707	75811849	660093769243	8757	76685049	67153 974093
8708	75829264	660321230912	8758	76702564	671761055512
8709	75846681	660548744829	8759	76720081	671991189479
8710	75864100	660776311000	8760	86737600	672221376000
8711	75881521	661003929431	8761	76755121	672451615081
8712	75898944	661231600128	8762	76772644	672681906728
8713	75917869	661459323097	8763	76790169	672912250947
8714	75933796	661687098344	8764	76807696	673142647744
8715	75951225	661914925875	8765	76825225	673373097125
8716	75968656	662142805696	8766	76842756	673603599096
8717	75986089	662370737813	8767	76860289	673834153663
8718	76003524	662598722232	8768	76877824	674064760832
8719	76020961	662826758959	8769	76895461	674295420609
8720	76038400	663054848000	8770	76912900	674526133000
8721	76055841	663282989361	8771	76930441	674756898011
8722	76073284	663511183048	8772	76947984	674987715648
8723	76090729	663739429067	8773	76965529	675218585917
8724	76108176	663967727424	8774	76983076	675449508824
8725	76125625	664196078125	8775	77000625	675680484375
8726	76143076	664424481176	8776	77018176	675911512576
8727	76160529	664652936583	8777	77035729	676142593433
8728	76177984	664881444352	8778	77053284	676373726952
8729	76195441	665110004489	8779	77070841	676604913139
8730	76212900	665238617000	8780	77088400	676836152000
8731	76230361	665567281891	8781	77105961	677067443541
8732	76247824	665795999168	8782	77123524	677298787768
8733	76265289	666024768837	8783	77141089	677530184687
8734	76282756	666253590904	8784	77158656	677761634304
8735	76300225	666482465375	8785	77176225	677993136625
8736	76317696	666711392256	8786	77193796	678224691656
8737	76335169	666940371553	8787	77211369	678456299403
8738	76352644	667169403272	8788	77228944	678687959872
8739	76370121	667398487419	8789	77246521	678919673069
8740	76387600	667627624000	8790	77264100	679151439000
8741	76405081	667856813021	8791	77281681	679383257671
8742	76422564	668086054488	8792	77299264	679615129088
8743	76440049	668315348407	8793	77316849	679847053257
8744	76457536	668544694784	8794	77334436	680079030184
8745	76475025	668774093625	8795	77352025	680311059875
8746	76492516	669003544936	8796	77369616	680543142336
8747	76510009	669233048723	8797	77387209	680775277573
8748	76527504	669462604992	8798	77404804	681007465592
8749	76545001	669692213749	8799	77422401	681239706399
8750	76562500	669921875000	8800	77440000	681472000000

R.	Sq.	Cu.	R.	Sq.	Cu.
8801	77457601	681704346401	8851	78340201	693389119051
8802	77475204	681936745608	8852	78357904	693624166208
8803	77492809	682169197627	8853	78375609	693859266477
8804	77510416	682401702464	8854	78393316	694094419864
8805	77528025	682634260125	8855	78411025	694329626375
8806	77545636	682866870616	8856	78428736	694564886016
8807	77563249	682099533943	8857	78446449	694800198793
8808	77580864	683332250112	8858	78464164	695035564712
8809	77598481	683565019129	8859	78481881	695270983779
8810	77616100	683797841000	8860	78499600	695506456000
8811	77633721	684030715731	8861	78517321	695741981381
8812	77651344	684263643328	8862	78535044	695977559928
8813	77668969	684496623797	8863	78552769	696213191647
8814	77686596	684729657144	8864	78570496	696448876544
8815	77704225	684962743375	8865	78588225	696684614625
8816	77721856	685195882496	8866	78605956	696920405896
8817	77739489	685429074513	8867	78623689	697156250363
8818	77757124	685662319432	8868	78641424	697392148032
8819	77774761	685895617259	8869	78659161	697628098909
8820	77792400	686128968000	8870	78676900	697864103000
8821	77810041	686362371661	8871	78694641	698100160311
8822	77827684	686595828248	8872	78712384	698336270848
8823	77845329	686829337767	8873	78730129	698572434617
8824	77862976	687062900224	8874	78747876	698808651624
8825	77880625	687296515625	8875	78765625	699044921875
8826	77898276	687530183976	8876	78783376	699281245376
8827	77915929	687763605283	8877	78801129	699517622133
8828	77933584	687997679552	8878	78818884	699754052152
8829	77951241	688231506789	8879	78836641	699990535439
8830	77968900	688465387000	8880	78854400	700227072000
8831	77986561	688699320191	8881	78872161	700463661841
8832	78004224	688933306368	8882	78889924	700700304968
8833	78021889	689167345537	8883	78907689	700937001387
8834	78039556	689401437704	8884	78925456	701173751104
8835	78057225	689635582875	8885	78943225	701410554125
8836	78074896	689869781056	8886	78960996	701647410456
8837	78092569	690104032253	8887	78978769	701884320103
8838	78110244	690338336472	8888	78996544	702121283072
8839	78127921	690572693719	8889	79014321	702358299369
8840	78145600	690807104000	8890	79032100	702595369000
8841	78163281	691041567321	8891	79049881	702832491971
8842	78180964	691276083688	8892	79067664	703069668288
8843	78198649	691510653107	8893	79085449	703306897957
8844	78216336	691745275584	8894	79103236	703544180984
8845	78234025	691979951125	8895	79121025	703781517375
8846	78251716	692214679736	8896	79138816	704018907136
8847	78269409	692449461423	8897	79156609	704256350273
8848	78287104	692684296192	8898	79174404	704493846792
8849	78304801	692919184049	8899	79192201	704731396699
8850	78322500	693154125000	8900	79210000	704969000000

R.	Sq:	Cu.	R.	Sq.	Cu.
8901	79227801	705206656701	8951	80120401	717157709351
8902	79245604	705444366808	8952	80138304	717398097408
8903	79263409	705682130327	8953	80156209	717638539177
8904	79281216	705919947264	8954	80174116	717879034664
8905	79299025	706157817625	8955	80192025	718119583875
8906	79316836	706395741416	8956	80209936	718360186816
8907	79334649	706633718643	8957	80227849	718600843493
8908	79352464	706871749312	8958	80245764	718841553912
8909	79370281	707109833429	8959	80263681	719082318079
8910	79388100	707347971000	8960	80281600	719323136000
8911	79405921	707586162031	8961	80299521	719564007681
8912	79423744	707824406528	8962	80317444	719804933128
8913	79441569	708062704497	8963	80335369	720045912347
8914	79459396	708301055944	8964	80353296	720286945344
8915	79477225	708539460875	8965	80371225	720528032125
8916	79495056	708777919296	8966	80389156	720769172696
8917	79512889	709016431213	8967	80407089	721010367063
8918	79530724	709254996632	8968	80425024	721251615232
8919	79548561	709493615559	8969	80442961	721492917209
8920	79566400	709732288000	8970	80460900	721734273000
8921	79584241	709971013961	8971	80478841	721975682611
8922	79602084	710209793448	8972	80496784	722217146048
8923	79619929	710448626467	8973	80514729	722458663317
8924	79637776	710687513024	8974	80532676	722700234424
8925	89655625	710926453125	8975	80550625	722941859375
8926	79673476	711165446776	8976	80568576	723183538176
8927	79691329	711404493983	8977	80586529	723425270833
8928	79709184	711643594752	8978	80604484	723667057352
8929	79727041	711882749089	8979	80622441	723908897739
8930	79744900	712121957000	8980	80640400	724150792000
8931	79762761	712361218491	8981	80658361	724392740141
8932	79780624	712600533568	8982	80676324	724634242168
8933	79798489	712839902237	8983	80694289	724876798087
8934	79816356	713079324504	8984	80712256	725118907904
8935	79834225	713318800375	8985	80730225	725361071625
8936	79852096	713558329856	8986	80748196	725603289256
8937	79869969	713797912953	8987	80766169	725845560803
8938	79887844	714037549672	8988	80784144	726087886272
8939	79905721	714277240019	8989	80802121	726330265669
8940	79923600	714516984000	8990	80820100	726572699000
8941	79941481	714756781621	8991	80838081	726815186271
8942	79959364	714996632888	8992	80856064	727057727488
8943	79977249	715236537807	8993	80874049	727300322657
8944	79995136	715476496384	8994	80892036	727542971784
8945	80013025	715716508625	8995	80910025	777785674875
8946	80030916	715956574536	8996	80928016	778028431936
8947	80048809	716196694123	8997	80946009	778271242973
8948	80066704	716436867392	8998	80964004	778514107992
8945	80084601	716677094349	8999	80982001	778757026999
8950	80102500	716917375000	9000	81000000	729000000000

R.	Sq.	Cu.	R.	Sq.	Cu.
9001	81018001	729243027001	9051	81920601	741463359651
9002	81036004	729486108008	9052	81938704	741709148608
9003	81054009	729729243027	9053	81956809	741954991877
9004	81072016	729972432064	9054	81974916	742200889464
9005	81090025	730215675125	9055	81993025	742446841375
9006	81108036	730458972216	9056	82011136	742692847616
9007	81126049	730702323343	9057	82029249	742938908193
9008	81144064	730945728512	9058	82047364	743185023112
9009	81162081	731189187729	9059	82065481	743431192379
9010	81180100	731432701000	9060	82083600	743677416000
9011	81198121	731676268331	9061	82101721	743923693981
9012	81216144	731919889728	9062	82119844	744170026328
9013	81234169	732163565197	9063	82137969	744416413047
9014	81252196	732407294744	9064	82156096	744662854144
9015	81270225	732651078375	9065	82174225	744909349625
9016	81280256	732894916096	9066	82192356	745155899496
9017	81306289	733138807913	9067	82210489	745402503763
9018	81324324	733382753832	9068	82228624	745649162432
9019	81342361	733626753859	9069	82246761	745895875509
9020	81360400	733870808000	9070	82264900	746142643000
9021	81378441	734114916261	9071	82283041	746389464911
9022	81396484	734359078648	9072	82301184	746636341248
9023	81414529	734603295167	9073	82319329	746883272017
9024	81432576	734847565824	9074	82337476	747130257224
9025	81450625	735091890625	9075	82355625	747377296875
9026	81468676	735336269576	9076	82373776	747624390976
9027	81486729	735580702683	9077	82391929	747871539533
9028	41504784	735825189952	9078	82410084	748118742552
9029	81522841	736069731389	9079	82428241	748366000039
9030	81540900	736314327000	9080	82446400	748613312000
9031	81558961	736558976791	9081	82464561	748860678441
9032	81579024	736803680768	9082	82482724	749108099368
9033	81595089	737048438937	9083	82500889	749355574787
9034	81613156	737293251304	9084	82519056	749603104704
9035	81631225	737538117875	9085	82537225	749850689125
9036	81649296	737783038656	9086	82555396	750098328056
9037	81667369	738028013653	9087	82573569	750346021503
9038	81685444	738273042872	9088	82591744	750593769472
9039	81703521	738518126319	9089	82609921	750841571969
9040	81721600	738763264000	9090	82628100	751089429000
9041	81739681	739008455921	9091	82646281	751337340571
9042	81757764	739253702688	9092	82664464	751585306688
9043	81775849	739499002507	9093	82682649	751833327357
9044	81793936	739744357184	9094	82700836	752081402584
9045	81812025	739989766125	9095	82719025	752329532375
9046	81830116	740235229336	9096	82737216	752577716736
9047	81848209	740480746823	9097	82755409	752825955673
9048	81866304	740726318592	9098	82773604	753074249192
9049	81884401	740971944649	9099	82791801	753322597299
9050	81902500	741217625000	9100	82810000	753571000000

R,	Sq·	Cu.	R.	Sq.	Cu.
9101	82828201	753819457301	9151	83740801	766312069951
9102	82846404	754067969208	9102	83759104	766563319808
9103	82864609	754316535727	9153	83777409	766814624577
9104	82882816	754565156864	9154	83795716	767065984264
9105	82901025	754813832625	9155	83814025	767317398875
9106	82919236	755062563016	9156	83832336	767568868416
9107	82937449	755311348043	9157	83850649	767820392893
9108	82955664	755560187712	9158	83868964	768071972312
9109	82923881	755809082029	9159	83887281	768323606679
9110	82992100	756058031000	9160	83905600	768575296000
9111	83010321	756307034631	9161	83923921	768827040281
9112	83028544	756556092928	9162	83942244	769078839528
9113	83046769	756805205897	9163	83960569	769330693747
9114	83064996	757054373544	9164	83978896	769582602944
9115	83083225	757303595875	9165	83997225	769834567125
9116	83101456	757552872896	9166	84015556	770086586296
1117	83119689	757802204613	9167	84033889	770338660463
9118	83137924	758051591032	9168	84052224	770590789632
9119	83156161	758301032159	9169	84070561	770842973809
9120	83174400	758550528000	9170	84088900	771095213000
9121	83192641	758800078561	9171	84107241	771347507211
9122	83210884	759049683848	6172	84125584	771599856448
9123	83229129	759299343867	9173	84143929	771852260717
9124	83247376	749549058624	9174	84162276	772104720024
9125	83265625	759798828125	9175	84180625	772357234375
9126	83283876	760048652376	9176	84198976	772609803776
9127	83302129	760298531383	9177	84217329	772862428233
9128	83320384	760548465152	9178	84235684	773115107752
9129	83338641	760798453689	9179	84254041	773367842339
9130	83356900	761048497000	9180	84272400	773620632000
9131	83375161	761298595091	9181	84290761	773873476741
9132	83393424	761548747968	9182	84309124	774126376568
9133	83411689	761798955637	9183	84327489	774379331487
9134	83429956	762049218104	9184	84345856	774632341504
9135	83448225	762299535375	9185	84564225	774885406625
9136	83466496	762549907456	9186	84382596	775138526856
9137	83484769	762800334353	9187	84400969	775391702203
0138	83503044	763050816072	9188	84419344	775644932672
9139	83521321	763301352619	9189	84437721	775898218269
9140	83539600	763551944000	9190	84456100	776151559000
9141	83557881	763802590221	9191	84474481	776404954871
9142	83576164	764053291288	9192	84492864	776658405888
9143	83594449	764304047207	9193	84511249	776911912057
9144	83612736	764554857984	9194	84529636	777165473384
9145	83631025	764805723625	9195	84548025	777419089875
9146	83649316	765056644136	9196	84566416	777672761536
9147	83667609	765307619523	9197	84584809	777926488373
9148	83685904	765558649792	9198	84603204	778180270392
9149	83704201	765809734949	9199	84621601	778434107599
9150	83722500	766060875000	9200	84640000	778688000000

R.	Sq.	Cu.	R.	Sq.	Cu.
9201	84658401	778941947601	9251	85581001	791709840251
9202	84676804	779195950408	9252	85599504	791966611008
9203	84695209	779450008427	9253	85618009	792223437277
9204	84713616	779704121664	9254	85636516	792480319064
9205	84732025	779958290125	9255	85655025	792737256375
9206	84750436	780212513816	9256	85673536	792994249216
9207	84768849	780466792743	9257	85692049	793251297593
9208	84787264	780721126912	9258	85710564	793508401512
9209	84805681	780975516329	9259	85729081	793765560979
9210	84824100	781229961000	9260	85747600	794022776000
9211	84842521	781484460931	9261	85766121	794280046581
9212	84860944	781739016128	9262	85784644	794537372728
9213	84879369	781993626597	9263	85803169	794794754447
9214	84897796	782248292344	9264	85821696	795052191744
9215	84916225	782503013375	9265	85840225	795309684625
9216	84934656	782757789696	9266	85850756	795567233096
9217	84953089	783012621313	9267	85877289	795824837163
9218	84971524	783267508232	9268	85895824	796082495832
9219	84989961	783522450459	9269	85914361	796340212109
9220	85008400	783777448000	9270	85932900	796597983000
9221	85026841	784032500861	9271	85951441	796855809511
9222	85045284	784287609048	9272	85969984	797113691648
9223	85003729	784542772567	9273	85988529	797371629417
9224	85082176	784797991424	9274	86007076	797629622824
9225	85100625	785053265625	9275	86025625	797887671875
9226	85119076	785308595176	9276	86044176	798145776576
9227	85137529	785563980083	9277	86062729	798403936933
9228	85155984	785819420352	9278	86081284	798662152952
9229	85174441	786074915989	9279	86099841	798920424639
9230	85192900	786330467000	9280	86118400	799178752000
9231	85211361	786586073391	9281	86136961	799437135041
9232	85229824	786841735168	9282	86155524	799695573768
9233	85248289	787097452337	9283	89174089	799954068187
9234	85266756	787353224904	9284	86192656	800212618304
9235	85285225	787609052875	9285	86211225	800471224125
9236	85303696	787864936256	9286	86229796	800729885656
9237	85322169	788120875053	9287	86248369	800988602903
9238	85340644	788376869272	9288	86266944	801247375872
9239	85359121	788632918919	9289	86285521	801506204569
9240	85377600	788889024000	9290	86304100	801765089000
9241	85396081	789145184521	9291	86322681	802024029171
9242	85414564	789401400488	9292	86341264	802283025088
9243	85433049	789657671907	9293	86359849	802542076757
9244	85451536	789913998784	9294	86378436	802801184184
9245	85470025	790170381125	9295	86399025	803060347375
9246	85488516	790426818936	9296	86415416	803319566336
9247	85507009	790683312223	9297	86434209	803578841073
9248	85525504	790939860992	9298	86452864	803838171592
9249	85544001	791196465249	9299	86471401	804097557899
9250	85562500	791453125000	9300	86490000	804357000000

R.	Sq.	Cu.	R.	Sq.	Cu.
9301	86508601	804616497901	9351	87441201	817662670551
9302	86527204	804876051608	9352	87459904	817925022208
9303	86545809	805135661127	9353	87478609	818187429977
9304	86564416	805395126464	9354	87497316	818449893864
9305	86583025	805655047625	9355	87516025	818712413875
9306	86601636	805914824616	9356	87534736	818974990016
9307	86620249	806174657443	9357	67553449	819237622293
9308	86638864	806434546112	9358	87572164	819500310712
9309	86657481	806694490629	9359	87590881	819763055279
9310	86676100	806954491000	9360	87609600	820025856000
9311	86694721	807214547231	9361	87628321	820288712881
9312	86713344	807474659328	9362	87647044	820551625928
9313	86731969	807734827297	9363	87665769	820814595147
9314	86750596	807995051144	9364	87684496	821077620544
9315	86769225	808255330875	9365	87703225	821340702125
9316	86787856	808515666496	9366	87721956	821603839896
9317	86806489	808776058013	9367	87740689	821867033863
9318	86825124	809036505432	9368	87759424	822130284032
9319	86843761	809297008759	9369	87778161	822393590409
9320	86862400	809557568000	9370	87796900	822656953000
9321	86881041	809818183161	9371	87815641	822920371811
9322	86899684	810078854248	9372	87834384	823183846848
9323	86918329	810339581267	9373	87853129	823447378117
9324	86936976	810600364224	9374	87871876	823710965624
9325	86955625	810861203125	9375	87890625	823974609375
9326	86974276	811122097976	9376	87909376	824238309376
9327	86992929	811383048783	9377	87928129	824502065633
9328	87011584	811644055552	9378	87946884	824765878152
9329	87030241	811905118289	9379	87965641	825029746939
9330	87048900	812166237000	9380	87984400	825293672000
9331	87067561	812427411691	9381	88003161	825557653341
9332	87086224	812688642368	9382	88021924	825821690968
9333	87104889	812949929037	9383	48040689	826085784887
9334	87123556	813211271704	9384	88059456	826349935104
9335	87142225	813472670375	9385	88078225	826614141625
9336	87160896	813734125056	9386	88096996	826878404456
9337	87179569	813995635753	9387	88115769	827142723603
9338	87198244	814257202472	9388	88134544	827407099072
9339	87216921	814518825219	9389	88153321	827671530869
9340	87235600	814780504000	9390	88172100	827936019000
9341	87254281	815042238821	9391	88190881	828200563471
9342	87272964	815304029688	9392	88209664	828465164288
9343	87291649	815565876607	9393	88228449	828729821457
9344	87310336	815827779584	9394	88247236	828994534984
9345	87329025	816089738625	9395	88266025	829259304875
9346	87347716	816351753736	9396	88284816	829524131136
9347	87366409	816613824923	9397	88303609	829789013773
9348	87345104	816875952192	9398	88322404	830053952792
9349	87403801	817138135549	9399	88341201	830318948199
9350	87422500	817400375000	9400	88360000	830584000000

R.	Sq.	Cu.	R.	Sq.	Cu.
9401	88378801	830849108201	9451	89321401	844176560851
9402	88397604	831114272808	9452	89340304	844444553408
9403	88416409	831379493827	9453	89359209	844712602677
9404	88435216	831644771264	9454	89378116	844980708664
9405	88454025	831910105125	9455	89397025	845248871375
9406	88472836	832175495416	9456	89415936	845517090816
9407	88491649	832440942143	9457	89434849	845785366993
9408	88510464	832706445312	9458	89453764	846053699912
9409	88529281	832972004929	9459	89472681	846322089579
9410	88548100	833237621000	9460	89491600	846590536000
9411	88566921	833503293531	9461	89510521	846859039181
9412	88585744	833769022528	9462	89529444	847127599128
9413	88604569	834034807997	9463	89548369	847396215847
9414	88623396	834300649944	9464	89567296	847664889344
9415	88642225	834566548375	9465	89586225	847933619625
9416	88661056	834832503296	9466	89605156	848202406696
9417	88679849	835098614713	9467	89624089	848471250563
9418	88698724	835364582632	9468	89643024	848740151232
9419	88717561	835630707059	9469	89661961	849009108709
9420	88736400	835896888000	9470	89680900	849278123000
9421	88755241	836163125461	9471	89699841	849547194111
9422	88774084	836429419448	9472	89718784	849816322048
9423	88792929	836695769967	9473	89737729	850085506817
9424	88811776	836962177024	9474	89756676	850354748424
9425	88830625	837228640624	9475	86775625	850624046875
9426	88849476	837495160776	9476	89794576	850893402176
9427	88868329	837761737483	9477	89813529	851162814333
9428	88887184	838028370752	9478	89832484	851432283352
9429	88906041	838295060589	9479	89851441	851701809239
9430	88924900	838561807000	9480	89870400	851971392000
9431	88943761	838828609991	9481	89889361	852241031641
9432	88962624	839095469568	9482	89908324	832510728168
9433	88981489	839362385737	9483	89927289	852780481587
9434	89000356	839629358504	9484	89946256	853050291904
9435	89019225	839896387875	9485	89965225	853320159125
9436	89038096	840163473856	9486	89984196	853590083256
9437	89056969	840430616453	9487	60003169	853860064303
9438	89075844	840697815672	9488	90022144	854130102272
9439	89094721	840965071519	9489	90041121	854400197169
9440	89113600	841232384000	9490	90060100	854670349000
9441	89132481	841499753121	9491	90079081	854940557771
9442	89151364	841767178888	9492	90098064	855210823488
9443	89170249	842034661307	9493	90117049	855481146157
9444	89189136	842302200384	9494	90136036	855751525784
9445	89208025	842569796125	9495	90155025	856021962375
9446	89226916	842837448536	9496	90174016	856292455936
9447	89245809	843105157623	9497	90193009	556563006473
9448	89264704	843372923392	9498	90212004	856833613992
9449	89283601	843640745849	9499	90231001	857104278499
9450	89302500	843908625000	9500	90250000	857375000000

R.	Sq.	Cu.	R.	Sq.	Cu.
9501	90269001	857645778501	9551	91221601	871257511151
9502	90288004	857916614008	9552	91240704	871531204608
9503	90307009	858187506527	9553	91259809	871804955377
9504	90326016	858458456064	9554	91278916	872078763464
9505	90345025	858729462625	9555	91298025	872352628875
9506	90364036	859000526216	9556	91317136	872626551616
9507	90383049	859271646843	9557	91336249	872900531693
9508	90402064	859542824512	9558	91355364	873174569112
9509	90421081	859814059229	9559	91374481	873448663879
9510	90440100	860085351000	9560	91393600	873722816000
9511	90459121	860356699831	9561	91412721	873997025481
9512	90478144	860628105728	9562	91431844	874271292328
9513	90497169	860899568697	9563	91450969	874545616547
9514	90516196	861171088744	9564	91470096	874819998144
9515	90535225	861442665875	9565	91489225	875094437125
9516	90554256	861714300096	9566	91508356	875368933496
9517	90573289	861985991413	9567	91527489	875643487263
9518	90592324	862257739832	9568	91546624	875918098432
9519	90611361	862529545359	9569	91565761	876192767009
9520	90630400	862801408000	9570	91584900	876467493000
9521	90649441	863073327761	9571	91604041	876742276411
9522	90668484	863345304648	9572	91623184	877017117248
9523	90687529	863617338667	9573	91642329	877292015517
9524	90706576	863889429824	9574	91661476	877566971224
9525	90725625	864161578125	9575	91680625	877841984365
9526	90744676	864433783576	9576	91699776	878117054966
9527	90763729	864706046183	9577	91718929	878392183033
9528	90782784	864978365952	9578	91738084	878667368552
9529	90801841	865250742889	9579	91757241	878942611539
9530	90820900	865523177000	9580	91776400	879217912000
9531	90839961	865795668291	9581	91795561	879493269941
9532	90859024	866068216768	9582	91814724	879768685368
9533	90878089	866340822437	9583	91833889	880044158287
9534	90897156	866613485304	9584	91853056	880319688704
9535	90916225	866886205375	9585	91872225	880595276625
9536	90935296	867158982656	9586	91891396	880870922056
9537	90954369	867531817153	9587	91910569	881146625003
9538	90973444	867704708872	9588	91929744	881422385472
9539	90992521	867977657819	9589	91948921	881698203469
9540	91011600	868250664000	9590	91968100	881974079000
9541	91030681	868523727421	9591	91987281	882250012071
9542	91049764	868796848088	9592	92006464	882526002688
9543	91068849	869070026007	9593	92025649	882802050857
9544	91087936	869343261184	9594	92044836	883078156584
9545	91107025	869616553625	9595	92064025	883354319875
9546	91176116	869889903336	9596	92083216	883630540736
9547	91145209	870163310323	9597	92102409	883906819173
9548	91164304	870436774592	9598	92121604	884183155192
9549	91183401	870710296149	9599	92140801	884459548799
9550	91202500	870983875000	9600	92160000	884736000000

R.	Sq	Cu.	R.	Sq.	Cu.
9601	92179201	885012508801	9651	93141801	898911521451
9602	92198404	885289075208	9652	83161104	899190975808
9603	92217609	885565699227	9653	93180409	899470488077
9604	92236816	885842380864	9654	93199716	899750058264
9605	92256025	886119120125	9655	93219025	900029686375
9606	92275236	886395917016	9656	93238336	900309372416
9607	92294449	886672771543	9657	93257649	900589116393
9608	92313664	886949683712	9658	93276964	900868918312
9609	92332881	887226653529	9659	93296281	901148778179
9610	92352100	887503681000	9660	93315600	901428696000
9611	92371321	887780766131	9661	93334921	901708671781
9612	92390544	888057908928	9662	93354244	901988705528
9613	92409769	888335109397	9663	93373569	902268797247
9614	92428996	888612367544	9664	93392896	902548946944
9615	92448225	888889683375	9665	93412225	902829154625
9616	92467456	889167056896	9666	93431556	903109420296
9617	92486689	889444488113	9667	93450889	903389743963
9618	92505924	889721977032	9668	93470224	903670125632
9619	92525161	089099523659	9669	93489561	903950565309
9620	92544400	890277128000	9670	93508900	904231063000
9621	92563641	890554790061	9671	93528241	904511618711
9622	92582884	890832509848	9672	83547584	904792232448
9623	92602129	891110287367	9673	93566929	905072904217
9624	92621376	891388122624	9674	93586276	905353634024
9625	92640625	891666015625	9675	93605625	905634421875
9626	62659876	891943966376	9676	93624976	905915267776
9627	92679129	802221974883	9677	93644329	906196171733
9628	92698384	892500041152	9678	93663684	906477133752
9629	92717641	892778165189	9679	93683041	906758153839
9630	92736900	893056347000	9680	93702400	907039232000
9631	92756161	893334586591	9681	93721761	907320368341
9632	92775424	893612883968	9682	93741124	907601562568
9633	92794689	893891239137	9683	93760489	907882814987
9634	92813956	894169652104	9684	93779856	908164125504
9635	92833225	894448122875	9685	93799225	908445494125
9636	92852496	894726651456	9686	93818596	908726920856
9637	92871769	895005237853	9687	93837969	909008405703
9638	92891044	895283882072	9688	93857344	919289948672
9639	62910321	895562584119	9689	93876721	909571549769
9640	92929600	895841344000	9690	93896100	909853209000
9641	92948881	896120161721	9691	93715481	910134926371
9642	92968164	896399037288	9692	93934864	910416701888
9643	92987449	896677970707	9693	93954249	910698535557
9644	93006736	896956961984	9694	93973636	910980427384
9645	93026025	897236011125	9695	93993025	911262377375
9646	93045316	897515118136	9696	94012416	911544385536
9647	93064609	897794283023	9697	94031809	911826451873
9648	93083904	898073505792	9698	94051204	912108576392
9649	93103201	898352786449	9699	94070601	912390759099
9650	93122500	898632125000	9700	94090000	912673000000

R,	Sq.	Cu.	R.	Sq.	Cu.
9701	94109401	912955299101	9751	95082001	927144591751
9702	94128804	913237656408	9752	95101504	927429867008
9703	94148209	913520071927	9753	95121009	927715200777
9704	94167616	913802545664	9754	95140516	928000593064
9705	94187025	914085077625	9755	95160025	928286043875
9706	94206436	914367667816	9756	95179536	928571553216
9707	94225849	914650316243	9757	95199049	928857121093
9708	94245264	914933022912	9758	95218564	929142747512
9709	94264681	915215787829	9759	95238081	929428432479
9710	94284100	915498611000	9780	95257600	999614177000
9711	94303521	915781492431	9761	95277121	929999978081
9712	94322944	916064432128	9762	95296644	930285838728
9713	94342369	916347430097	9763	95316169	930571757947
9714	94361796	916630486344	9764	95335696	930857735744
9715	94381225	916913600875	9765	95355225	931143772125
9716	94400656	917196773696	9766	95374756	931429867096
9717	94420089	917480004813	9767	95394289	931716020663
9718	94439524	917763294232	9768	95413824	932002232832
9719	94458961	918046641959	9769	95433361	932288503609
9720	94478400	918330048000	9770	95452900	932574833000
9721	94497841	918613512361	9771	95472441	932861221011
9722	94517284	918897035048	9772	95491984	933147667648
9723	94536729	919180616067	9773	95511529	933434172917
9724	94556176	919464255424	9774	95531076	933720736824
9725	94575625	919747953125	9775	95550625	934007359375
9726	94595076	920031709176	9776	95570176	934294040576
9727	94614529	920315523583	9777	95589729	934580780433
9728	94633984	920599396352	9778	95609284	934867578952
9729	94653441	920883327489	9779	95628841	935154436139
9730	94672900	921167317000	9780	95648400	935441352000
9931	94692361	921451364891	9781	95667961	935728326541
9932	94711824	921735471168	9782	95687524	976015359768
9933	94731289	922019635837	9783	95707089	936302451687
9934	94750756	922303858904	9784	95726656	936589602304
9935	94770225	922588140375	9785	95746225	936876811625
9936	94789696	922872480256	9786	95765796	937164079656
9937	94809169	923156878553	9787	95785369	937451406403
9938	94828644	923441335272	9788	95804944	937738791872
9939	94848121	923725850419	9789	95824521	938026236069
9940	94867600	924010424000	9790	95844100	938313739000
9741	94887081	924295056021	9791	95863681	938601300671
9742	94906564	924579746488	9792	95883264	938888921088
9743	94926049	924864495407	9793	95902849	939176600257
9744	94945536	925149302784	9794	95922436	939464338184
9745	99465025	925434168625	9795	95942025	939752134875
9746	94984516	925719092936	9796	95961616	940039990336
9747	95004009	926004075723	9797	95981209	940327904573
9748	95023504	926289116992	9798	96000804	940615877592
9749	95043001	926574216749	9799	96020401	940903909399
9750	95062500	926859375000	9800	96040000	941192000000

R.	Sq	Cu.	R.	Sq.	Cu.
9801	96059601	941480149401	9851	97042201	955962722051
9802	96079204	941768357608	9852	97061904	956253878208
9803	96098809	942056624627	9853	97081609	956545093477
9804	96118416	942344950464	9854	97101316	956836397864
9805	96138025	942633335125	9855	97121025	957127701375
9806	96157636	942921778616	9856	97140736	557419094016
9807	96177249	943210280543	9857	97160449	957710545793
9808	97196864	943498842112	9858	07180164	958002056712
9809	96216481	943787462129	9859	97199881	958293626779
9810	96236100	944076141000	9860	97219600	958585256000
9811	96255721	944364878731	9861	97239321	958876944381
9812	96275344	944653675328	9862	97259044	959168691928
9813	96294969	944942530797	9863	97278769	959460498647
9814	96314596	945231445144	9864	97298496	959752364544
9815	96334225	945520418375	9865	97318225	960044289625
9816	96353856	945809450496	9866	97337956	960336273896
9817	96373489	946098541513	9867	97357689	960628317363
9818	96393124	946387691432	9868	97377424	960920420032
9819	96412761	946676900259	9869	97397161	961212581909
9820	96432400	946966168000	9870	97416900	961504803000
9821	96452041	947255494661	9871	97436641	961797083311
9822	96471684	947544880248	9872	97526384	962089422848
9823	96491329	947834324767	9873	97476129	962381821617
9824	96510976	948123828224	9874	97495876	962674279624
9825	96530625	948413390625	9875	97515625	962966796875
9826	96550276	948703011976	9876	97535376	963259373376
9827	96569929	948992692283	9877	97555129	963552009133
9828	96589584	949282431552	9878	97574884	963844704152
9829	96609241	949572229789	9879	97594941	964137458439
9830	96628900	949862087000	9880	97614400	964430272000
9831	96648561	950152003191	9881	97634161	964723144841
9832	96668224	950441978368	9882	97653924	965016076968
9833	96687889	950732012537	9883	97673689	965309068387
9834	96707556	951022105704	9884	97693456	965602119104
9835	96727225	951312257875	9885	97713225	965895229125
9836	96746896	951602469056	9886	97732996	966188398456
9837	96766569	951892739253	9887	97752769	966481627103
9838	96786244	952183068472	9888	97772544	966774915072
9839	96805921	952473456719	9889	97792321	967068262369
9840	96825600	952763904000	9890	97812100	967361669000
9841	96845281	953054410321	9891	97831881	967655134971
9842	96864964	953344975688	9892	77851664	967948660288
9843	96884649	953635600107	9893	97871449	968242244957
9844	96904336	953926283584	9894	97891236	968535888984
9845	96924025	954217026125	9895	97911025	968829592375
9846	96943716	954507827736	9896	97930816	969123355136
9847	96963409	954798688423	9897	97950609	969417177273
9848	96983104	955089608192	9898	97970404	969711058792
9849	97002801	955380587049	9899	97990201	970004999699
9850	97022500	955671625000	9900	98010000	970299000000

R,	Sq.	Cu.	R.	Sq.	Cu.
9901	98029801	970593059701	9951	99022401	985371912351
9902	98049604	970887178808	9952	99042304	985669009408
9903	98069409	971181357327	9953	99062209	985966166177
9904	98089216	971475595264	9954	99082116	986263382664
9905	98109025	971769892625	9955	99102025	986560658875
9906	98128836	972064249416	9956	99121936	986857994816
9907	98148649	972358665643	9957	99141849	987155390493
9908	98168464	972653141312	9958	99161764	987452845912
9909	98188281	972947676429	9959	99181681	987750361079
9910	98208100	973242271000	9960	99201600	988047936000
9911	98227921	973536925031	9961	99221521	988345570681
9912	98247744	973831638528	9962	99241444	988643265128
9913	98267569	974126411497	9963	99261369	988941019347
9914	98287396	974421243944	9964	99281296	989238833344
9915	98307225	974716135875	9965	99301225	989536707125
9916	98327056	975011087296	9966	99321156	989834640696
9917	98346889	975306098213	9967	99341089	990132634063
9918	98366724	975601168632	9968	99361024	990430817232
9919	98386561	975896298559	9969	99380961	990728800209
9920	98406400	976191488000	9970	99400900	991026973000
9921	98426241	976486736961	9971	99420841	991325205611
9922	98446084	976782045448	9972	99440784	991623498048
9923	98465929	977077413467	9973	99460729	991921850317
9924	98485776	977372841024	9974	99480676	992220262424
9925	98505625	977668328125	9975	99500625	992518734375
9926	98525476	977963874776	9976	99520576	992817266176
9927	98545329	978259480983	9977	99540529	993115857833
9928	98565184	978555146752	9978	99560484	993414509352
9929	98585041	978850872089	9979	99580441	993713220739
9930	98604900	979146657000	9980	99600400	994011992000
9931	98624761	979442501491	9981	99620361	994310823141
9932	98644624	979738405568	9982	99640324	9946097141[illegible]8
9933	98664489	980034369237	9983	99660289	994908665087
9934	98684356	980330392504	9984	99680256	995207675904
9935	98704225	980626475375	9985	99700225	995506746625
9936	98724096	980922617856	9986	99720196	995805877256
9937	98743969	981218819953	9987	99740169	996105067803
9938	98763844	982515081672	9988	99760144	996404318272
9939	98783721	981811403019	9989	99780121	996703628669
9940	98803600	982107784000	9990	99800100	997002999000
9941	98823481	982404224621	9991	99820081	997302429271
9942	98843364	982700724886	9992	99840064	997601919488
9943	98863249	982997284807	9993	99860049	997901469657
9944	98883136	983293904384	9994	99880036	998201079784
9945	98903025	983590583625	9995	99900025	998500749875
9946	98922916	983887322536	9996	99920016	998800479936
9947	98942809	984184121123	9997	99940009	999100269973
9948	98962704	984480979392	9998	99960004	999400119992
9949	98982601	984777897349	9999	99980001	999700029999
9950	99002500	985074875000	10000	100000000	1000000000000

10 M.		10 M.		10 M. 1 C.	
R.	Sq.	R.	R.	R.	Sq.
10001	100020001	10051	101022601	10101	102030201
10002	100040004	10052	101042704	10102	102050404
10003	100060009	10053	101062809	10103	102070609
10004	100080016	10054	101082916	10104	102090816
10005	100100025	10055	101103025	10105	102111025
10006	100120036	10056	101123136	10106	102131236
10007	100140049	10057	101143249	10107	102151449
10008	100160064	10058	101163364	10108	102171664
10009	100180081	10059	101183481	10109	102191881
10010	100200100	10060	101203600	10100	102212100
10011	100220121	10061	101223721	10111	102232321
10012	100240144	10062	101243844	10112	102252544
10013	100260169	10063	101263969	10113	102272769
10014	100280196	10064	101284096	10114	102292996
10015	100300225	10065	101304225	10115	102313225
10016	100340256	10066	101324356	10116	102333456
10107	100340289	10067	101344489	10117	102353689
10018	100360324	10068	101364624	10118	102373924
10019	100380361	10069	101384761	10119	102394161
10020	100400400	10070	101404900	10120	102414400
10021	100420441	10071	101425041	10121	102434641
10022	100440484	10072	101445184	10122	102454884
10023	100460529	10073	101465329	10123	102475129
10024	100480576	10074	101485476	10124	102495376
10025	100500625	10075	101505625	10125	102515625
10026	100520676	10076	101525776	10126	102535876
10027	100540729	10077	101545929	10127	102556129
10028	100560784	10078	101566084	10128	102576384
10029	100580841	10079	101586241	10129	1025966[illegible]1
10030	100600900	10080	101606400	10130	102616900
10031	100620961	10081	101626561	10131	102637161
10032	100641024	10082	101646724	10132	102657424
10033	100661089	10083	101666889	10133	102677689
10034	100681156	10084	101687056	10134	102697956
10035	100701225	10085	101707225	10135	102718225
10036	100721296	10086	101727396	10136	102738496
10037	100741369	10087	101747569	10137	102758769
10038	100761444	10088	101767744	10138	102779044
10039	100781521	10089	101787921	10139	102799321
10040	100801600	10090	101808100	10140	102819600
10041	100821681	10091	101828281	10141	102839881
10042	100841764	10092	101848464	10142	102860164
10043	100861849	10093	101868649	10143	102880449
10044	100881936	1094	101888836	10144	102900736
10045	100902025	10095	101909025	10145	102921025
10046	100922116	10096	101929216	10146	102941316
10047	100942209	10097	101949409	10147	102961609
10048	100962304	10098	101969604	10148	102981904
10049	100982401	10099	101989801	10149	103002201
10050	101002500	10100	102010000	10150	103022500

R.	Sq.	R.	Sq	R.	Sq.
10151	103042801	10201	104060401	10251	105083001
10152	103063104	10202	104080804	10252	105103504
10153	103083409	10203	104101209	10253	105124009
10154	103103716	10204	104121616	10254	105144516
10155	103124025	10205	104142025	10255	105165025
10156	103144336	10206	104162436	10256	105185536
10157	103164649	10207	194182449	10257	105206049
10158	103184964	10208	104203264	10258	105226564
10159	103205281	10209	104223681	10259	105247081
10160	103225600	10210	104244100	10260	105267600
10161	103245921	10211	104264521	10261	105288121
10162	103266244	10212	104284944	10262	105308644
10163	103286569	10213	104305369	10263	105329169
10164	103306896	10214	104325796	10264	105349696
10165	103327225	10215	104346225	10265	105370225
10166	103347556	10216	104366656	10266	105390756
10167	103367889	10217	104387089	10267	105411289
10168	103388224	10218	104407524	10268	105431824
10169	103408561	10219	104427961	10269	105452361
10270	103428900	10220	104448400	10270	105472900
10171	103449241	10221	104468841	10271	105493441
10172	103469584	10222	104489284	10272	105513984
10173	103489929	10223	104509729	10273	105534529
10174	103510276	10224	104530176	10274	105555076
10175	103530625	10225	104550625	10275	105575635
10176	103550976	10226	104571076	10276	105596176
10177	103571329	10227	104591529	10277	105616729
10178	103591684	10228	104611984	10278	105637284
10179	103612041	10229	104632441	10279	105657841
10180	103632400	10230	104652900	10280	105678400
10181	103652761	10231	104673361	10281	105698961
10182	103673124	10232	104693824	10282	105719524
10183	103693489	10233	104714289	10283	105740089
10185	103713856	10234	104734756	10284	105760656
10184	103734225	10235	104755225	10285	105781225
10186	103754596	10236	104775696	10286	105801796
10187	103774969	10237	104796169	10287	105822369
10188	103795344	10238	104816644	10288	105842944
10189	103815721	10239	104837121	10289	105863521
10190	103836100	10240	104857600	10290	105884100
10191	103856481	10241	104878081	10291	105904681
10192	103876864	10242	104898564	10292	105925264
10193	103897249	10243	104919049	10293	105945849
10194	103917636	10244	104939536	10294	105966436
10195	103938025	10245	104960025	10295	105987025
10196	103958416	10246	104980516	10296	106007616
10197	103978809	10247	105001009	10297	106028209
10198	103999204	10248	105021504	10298	106048804
10199	104019602	10249	105042001	10299	106069401
10200	104040000	10250	105062500	10300	106090000

R.	Sq.	R.	Sq	R.	Sq.
10301	106110601	10351	107143201	10401	108180801
10302	106131204	10352	107163904	10402	108201604
10303	106151809	10353	107184609	10403	108222409
10304	106172416	10354	107205316	10404	108243216
10305	106193025	10355	107226025	10405	108264025
10306	106213636	10356	107246736	10406	108284836
10307	106234249	10357	107267449	10407	108305649
10308	106254864	10358	107288164	10408	108326464
10309	106275481	10359	107308881	10409	108347281
10310	106296100	10360	107329600	10410	108368100
10311	106316721	10361	107350321	10411	108388921
10312	106337344	10362	107371044	10412	108409744
10313	106357969	10363	107391769	10413	108430569
10314	106378596	10364	107412496	10414	108451396
10315	106399225	10365	107433225	10415	108472225
10316	106419856	10366	107453956	10416	108493056
10317	106440489	10367	107474689	10417	108513889
10318	106461124	10368	107495424	10418	108534724
10319	106481761	10369	107516161	10419	108555561
10320	106502400	10370	107536900	10420	108576400
10321	106523041	10371	107557641	10421	108597241
10322	106543684	10372	107578384	10422	108618084
10323	106564329	10373	107599129	10423	108638929
10324	106584976	10374	107619876	10424	108659776
10325	106605625	10375	107640625	10425	108680625
10326	106626276	10376	107661376	10426	108701476
10327	106646929	10377	107682129	10427	108722329
10328	106667584	10378	107702884	10428	108743184
10329	106688241	10379	107723641	10429	108764041
10330	106708900	10380	107744400	10430	108784900
10331	106729561	10381	117765161	10431	108805761
10332	106750224	10382	107785924	10432	108826624
10333	106770889	10383	107806689	10433	108847489
10334	106791556	10384	107827456	10434	108868356
10335	106812225	10385	107848225	10435	108899225
10336	106832896	10386	107868996	10436	108910096
10337	106853569	10387	107889769	10437	108930969
10338	106874244	10388	107910544	10438	108951844
10339	106894921	10389	107931321	10439	108972721
10340	106915600	10390	107952100	10440	108993600
10341	106936281	10391	107972881	10441	109014481
10342	106956964	10392	107993664	10442	109035364
10343	106977649	10393	108014449	10443	109056249
10344	106998336	10394	108035236	10444	109077136
10345	107019025	10395	108056025	10445	109098025
10346	107039716	10396	108076816	10446	109118916
10347	107060409	10397	108097609	10447	109139809
16348	107081104	10398	108118404	10448	109160704
10349	107101801	10399	108139201	10449	109181601
10350	107122500	10400	108160000	10450	109202500

10 M. 4 C.		10 M.5 C.		10 M. 5 C.	
R.	Sq.	R.	Sq.	R.	Sq.
10451	109223401	10501	110271001	10551	111323601
10452	109244304	10502	110292004	10552	111344704
10453	109265209	10503	110313009	10553	111365809
10454	109286116	10504	110334016	10554	111386916
10455	109307025	10505	110355025	10555	111408025
10456	109327936	10506	110376036	10556	111429136
10457	109348847	10507	110397045	10557	111450249
10458	109369764	10508	110418064	10558	111471364
10459	109390681	10509	110439081	10559	111492481
10460	109411600	10510	110460100	10560	111513600
10461	109432521	10511	110481121	10561	111534721
10462	109453444	10512	110502144	10562	111555844
10463	109474369	10513	110523169	10563	111576969
10464	109495296	10514	110544196	10564	111598096
10465	109516225	10515	110565225	10565	111619225
10466	109537156	10516	110586256	10566	111640356
10497	109558089	10517	110607289	10567	111661489
10468	109579024	10518	110628324	10568	111682624
10469	109599961	10519	110649361	10569	111703761
10470	109620900	10520	110670400	10570	111724900
10471	109641841	10521	110691441	10571	111746041
10472	109662784	10522	110712484	10572	111767184
10473	109683729	10523	110733529	10573	111788329
10474	109704676	10524	110754576	10574	111809476
10475	109725625	10525	110775625	10575	111830625
10476	109746576	10526	110796676	10576	111852776
10477	109767529	10527	110817729	10577	111872929
10478	109788484	10528	110838784	10578	111894084
10479	109809441	10529	110859841	10579	111915241
00480	109830400	10530	110880900	10580	111936400
10481	109851361	10531	110901961	10581	111957561
10482	109872324	10532	110923024	10582	111978724
10483	109893289	10533	110944089	10583	111999889
10484	109914256	50534	110965156	10584	112021056
10485	109935225	10535	110986225	10585	112042225
10486	109956196	10536	111007296	10586	112063396
10487	109977169	10537	111028369	10587	112084569
10488	109998144	10538	111049444	10588	112105744
10489	110019121	10539	111070521	10589	112126921
10490	110040100	10540	111091600	10590	112148100
10491	110061081	10541	111112681	10591	112169281
10492	110082064	10542	111133764	10592	112190464
10493	110103049	10543	111154849	10593	112211649
10494	110124036	10544	111175936	10594	112232836
10495	110145025	10545	111197025	10595	112254025
10496	110166016	10546	111218116	10596	112275216
10497	110187009	10547	111239209	10597	112296409
10498	110208004	10548	111260304	10598	112317604
10499	110229001	10549	111281401	10599	112338801
10500	110250000	10550	111302500	10600	112360000

R.	Sq.	R..	Sp.	R.	Sq.
10601	112381201	10651	113443801	10701	114511401
10602	112402404	10652	113465104	10702	114532804
10603	112423609	10653	113486409	10703	114554209
10604	112444816	10654	113507716	10704	114575616
10605	112466025	10655	113529025	10705	114597025
10606	112487236	10656	113550336	10706	114618436
10607	112508449	10657	113571649	10707	114639849
10608	112529664	10658	113592964	10708	114661264
10609	112550881	10659	113614281	10709	114682681
10610	112572100.	10660	113635600	10710	114704100
10611	112593321	10661	113656921	10711	114725521
10612	112614544	10662	113678244	10712	114746944
10613	112635769	10663	113699569	10713	114768369
10614	112656996	10664	113720896	10714	114789796
10615	112678225	10665	113742225	10715	114811225
10616	112699456	10666	113763556	10716	114832656
10617	112720689	10667	113784889	10717	114854089
10618	112741924	10668	113806224	10718	114875524
10619	112763161	10669	113827561	10719	114896961
10620	112784400	10670	113848900	10720	114918400
10621	112805641	10671	113870241	10721	114939841
10622	112826884	10672	113891584	10722	114961284
10623	112848129	10673	113912929	10723	114982729
10624	112869376	10674	113934276	10724	115004176
10625	112890625	10675	113955625	10725	115025625
10626	112911876	10676	113976976	10726	115047076
10627	112933129	10677	113998329	10727	115068529
10628	112954384	10678	114019684	10728	115089984
10629	112979641	10679	114041041	10729	115111441
10630	112996900	10680	114062400	10730	115132900
10631	113018161	10681	114083761	10731	115154361
10632	113039424	10682	114105124	10732	115175824
10633	113060689	10683	114126489	10733	115197289
10634	113081956	10684	114147856	10734	115218756
10635	113103225	10685	114169225	10735	115240225
10636	113124496	10686	114190596	10736	115261696
10637	113145769	10687	114211969	10737	115283169
10638	113167044	10688	114233344	10738	115304644
10639	113188321	10689	114254721	10739	115326121
10640	113209600	10690	114276100	10740	115347600
10641	113230881	10991	114297481	10741	115369081
10642	113252164	10692	114318804	10742	115390564
10643	113273449	10693	114340249	10743	115412049
10644	113294736	10694	114361636	10744	115433536
10645	113316025	10695	114383025	10745	115455025
10646	113337316	10696	114404416	10746	115476510
10647	113358609	10697	114425809	10747	115498009
10648	113379904	10698	114447204	10748	115519504
10649	113401201	10699	114468601	10749	115541001
10650	113422500	10700	114490000	10750	115563500

10 *M.* 7 C. 10 *M.*8 C. 10 *M.*8 C.

R.	Sq	R.	Sp.	R.	Sq.
10751	115584001	10801	116661601	10851	117744201
10752	115605504	10802	116683204	10852	117765904
10753	115627009	10803	116704809	10853	117787609
10754	115648516	10804	116726416	10854	117809316
10755	115670025	10805	116748025	10855	117831025
10756	115691536	10806	116769636	10856	117852736
10757	115713049	10807	116791249	10857	117874449
10758	115734564	10808	116812864	10858	117896164
10759	115756081	10809	116834481	10859	117917881
10760	115777600	10810	116856100	10860	117939600
10761	115799121	10811	116877721	10861	117961321
10762	115820644	10812	116899344	10862	117983044
10763	115842169	10813	116920969	10863	118004769
10764	115863696	10814	116942596	10864	118026396
10765	115885225	10815	116964225	10865	118048225
10766	115906756	10816	116985856	10866	118069956
10767	115928289	10817	117007489	10867	118091689
10768	115949824	10818	117029124	10868	118113424
10769	115971361	10819	117050761	10869	118135161
10770	115992900	10820	117072400	10870	118156900
10771	116014441	10821	117094041	10871	118178641
10772	116035984	10822	117115684	10872	118200384
10773	116057529	10823	117137329	10873	118222129
10774	116079076	10824	117158976	10874	118243876
10775	116100625	10825	117180625	10875	118265625
10776	116122176	10826	117202276	10876	118287376
10777	116143729	10827	117223929	10877	118309129
10778	116165284	20828	117245584	10878	118330884
10779	116186841	10829	117267241	10879	118352641
10780	116208400	10830	117288900	10880	118374400
10781	116229961	10831	117310561	10881	118396161
10782	116251524	10832	117332224	10882	118417924
10783	116273089	10833	117353889	10883	118439689
10784	116294656	10834	117375556	10884	118461456
10785	116316225	10835	117397225	10885	118483225
10786	116337796	10836	117418896	10886	118504996
10787	116359369	10837	117440569	10887	118526769
10788	116380944	10838	117462244	10888	118548544
10789	116402521	10839	117483921	10889	118570321
10790	116424100	10840	117505600	10890	118592100
10791	116445681	10841	117527281	10891	118613881
10792	116467264	10842	117548964	10892	118635664
10793	116488849	10843	117570649	10893	118657449
10794	116510436	10444	117592336	10894	118679236
10795	116532025	10845	117614025	10895	118701025
10796	116553616	10846	117635716	10896	118722816
10797	116575209	10847	117657409	10897	118744609
10798	116596804	10848	117679104	10898	118766404
10799	116618401	10849	117700801	10899	118788201
10800	116640000	10850	117722500	10900	118810000

R.	Sq.	R.	Sq.	R.	Sq.
10901	118831801	10951	119924401	11001	121022001
10902	118853604	10952	119946304	11002	121044004
10903	118875409	10953	119968209	11003	121066009
10904	118897216	10954	119990116	11004	121088026
10905	118919025	10955	120012025	11005	121110035
10906	118940836	10956	120033936	11006	121131036
10907	118962649	10957	120055849	11007	121156049
10908	118984464	10958	130077764	11008	121176064
10909	119006281	10959	120099681	11009	121198081
10910	119028100	10960	120121600	11010	121220100
10911	119049921	10961	120143521	11011	121242121
10912	119071744	10962	120165444	11012	121264144
10913	119093569	10963	120187369	11013	121286169
10914	119115396	10964	120209296	11014	121808189
10915	119137225	10965	120231225	11015	121330225
10916	119159056	10966	120253156	11016	121352[illegible]56
10917	119180889	10967	120275089	11017	121374239
10918	119202724	10968	120297024	11018	121396324
10919	119224561	10969	120318961	11019	121418361
10920	119246400	10970	120340900	11020	121440400
10921	119268241	10971	120362841	11021	121462441
10922	119290084	10972	120384784	11022	121484484
10923	119311929	10973	120406729	11023	121506529
10924	119333776	10974	120428676	11024	121528576
10925	119355625	10975	120450625	11025	121550625
19026	119377476	10976	120472576	11026	121572676
10927	119399329	10977	120494529	11027	121594729
10928	119421184	10978	120516484	11028	121616784
10929	119443041	10979	120538441	11029	121638841
10930	119464900	00980	120560400	11030	121660900
10931	119486761	10981	120582361	11031	121682961
10932	119508624	10682	120604324	11032	121705024
10933	119530489	10983	120626289	11033	121727089
10934	119552356	10984	120648256	11034	121749156
10935	119574225	10985	120670225	11035	121771225
10936	119596096	10986	120692196	11036	121793296
10937	119617969	10987	120714169	11037	121815369
10938	119639844	10988	120736144	11038	121837444
10939	119661721	10989	120758121	11039	121859521
10940	119683600	10990	120780100	11040	121881600
10941	119705481	10991	120802081	11041	121903681
10942	119727364	10992	120824064	11042	121925764
10943	119749249	10993	120846049	11043	121949849
10944	119771136	10994	120868036	11044	121969936
10945	119793025	10995	120890025	11045	121992025
10946	119814916	10996	120912016	11046	122014116
10947	119836809	10997	120934009	11047	122036209
10948	119858704	10998	120956004	11048	122058304
10949	119880601	10999	120978001	11049	122080401
10950	119902500	11000	121000000	11050	122102500

R.	Sq.	R.	Sq.	R.	Sq.
11051	122124601	11101	123232201	11151	124344801
11052	122146704	11102	123254404	11152	124367104
11053	122168809	11103	123276609	11153	124389409
11054	122190916	11104	123298816	11154	124411716
11055	122213025	11105	123321025	11155	124434025
11056	122235136	11106	123343236	11156	124456336
11057	122257249	11107	123365449	11157	124478649
11058	122279364	11108	123387664	11158	124500964
11059	122301481	11109	123409881	11159	124523281
11060	122323600	11110	123432100	11160	124545600
11061	122345721	11111	123454321	11161	124567921
11062	122367844	11112	123476544	11162	124590244
11063	122389969	11113	123498769	11163	124612569
11064	122412096	11114	123520996	11164	124634896
11065	122434225	11115	123543225	11165	124657225
11066	122456356	11116	123565456	11166	124679556
11067	122478489	11117	123587689	11167	124701889
11068	122500624	11118	123609924	11168	124724224
11069	122522761	11119	123632161	11169	124746561
11070	122544900	11120	123654400	11170	124768900
11071	122567041	11121	123676641	11171	124791241
11072	122589184	11122	123698884	11172	124813584
11073	122611329	11123	123721129	11173	124835929
11074	122633476	11124	123743376	11174	124858276
11075	122655625	11125	123765625	11175	124880625
11076	122677776	11126	123787876	11176	124902976
11077	122699929	11127	123810129	11177	124925329
11078	122722028	11128	123832384	11178	124947684
11079	122744241	11129	123854641	11179	124970041
11080	122766400	11130	123876900	11180	124992400
11081	122788561	11131	123899161	11181	125014761
11082	122810724	11132	123921424	11182	125037124
11083	122832889	11133	123943689	11183	125059489
11084	122855056	11134	123965956	11184	125081856
11085	122877225	11135	123988225	11185	125104225
11086	122899396	11136	124010496	11186	125126596
11087	122921569	11137	124032769	11187	125148969
11088	122943744	11138	124055044	11188	125171344
11089	122965921	11139	124077321	11189	125193721
11090	122988100	11140	124099600	11190	125216100
11091	123010281	11141	124121881	11191	125238481
11092	123032464	11142	124144164	11192	125260864
11093	123054649	11143	124166449	11193	125283249
11094	123076836	11144	124188736	11194	125305636
11095	123099025	11145	124211025	11195	125328025
11096	123121216	11146	124233316	11196	125350416
11097	123143409	11147	124255609	11197	125372809
11098	123165604	11148	124277904	11198	125395204
11099	123187801	11149	124300201	11199	125417601
11100	123210000	11150	124322500	11200	125440000

R.	Sq.	R.	Sq.	R.	Sq.
11201	125462401	11251	126585001	11301	127712601
11202	125484804	11252	126607504	11302	127735204
11203	125507209	11253	126638009	11303	127757809
11204	125529616	11254	126652516	11304	127780416
11205	125552025	11255	126675025	11305	127803025
11206	125574436	11256	126697536	11306	127825636
11207	125596849	11257	126720049	11307	127848249
11208	125619264	11258	126742564	11308	127870864
11209	125641681	11259	126765081	11309	127893481
11210	125664100	11260	126787600	11310	127916100
11211	125686521	11261	126810151	11311	127938721
11212	125708944	11262	126832644	11312	127961344
11213	125731369	11263	126855169	11313	127983969
11214	125753796	11264	126877696	11314	128006596
11215	125776225	11265	126900225	11315	128029225
11216	125798656	11266	126922756	11316	128051856
11217	125821089	11267	126943289	11317	128074489
11218	125843524	11268	126967824	11318	128097124
11219	125865961	11269	126990361	11319	128119761
11220	125888400	11270	127012900	11320	128142400
11221	125910841	11271	127035441	11321	128165041
11222	125933284	11272	127057984	11322	128187684
11223	125955729	11273	127080529	11323	128210329
11224	125978176	11274	127103076	11324	128232976
11225	126000625	11275	127125625	11325	128255625
11226	126023076	11276	127148176	11326	128278276
11227	126045529	11277	127170729	11327	128300929
11228	126067984	11278	127193284	11328	128323584
11229	126090441	11279	127215841	11329	128346241
11230	126112900	11280	127238400	11330	128368900
11231	126135361	11281	127260961	11331	128391561
11232	126157824	11282	127283524	11332	128414224
11233	126180289	11283	127306089	11333	128436889
11234	126202756	11284	127328656	11334	128459556
11235	126225225	11285	127351225	11335	128432225
11236	126247696	11286	127373796	11336	128504896
11237	126270169	11287	127396369	11337	128527569
11238	126292644	11288	127418944	11338	128550244
11239	126315121	11289	127441521	11339	128572921
11240	126337600	11290	127464100	11340	128595600
11241	126360081	11291	127486681	11341	128618281
11242	126382564	11292	127509264	11342	128640964
11243	126405049	11293	127531849	11343	128663649
11244	126427536	11294	127554436	11344	128686336
11245	126450025	11295	127577025	11345	128709025
11246	126472516	11296	127599616	11346	128731716
11247	126495009	11297	127622209	11347	128754409
11248	126517504	11298	127644804	11348	128777104
11249	126540001	11299	127667401	11349	128799801
11250	126562500	11300	127690000	11350	128822500

R.	Sq.	R.	Sq.	R.	Sq.
11351	128845201	11401	129982801	11451	151125401
11352	128867904	11402	130005604	11452	131148304
11353	128890609	11403	130028409	11453	131171209
11354	128913316	11404	130051216	11454	131194116
11355	128936025	11405	130074025	11455	131217025
11356	128958736	11406	130096836	11456	131239936
11357	128981449	11407	130119649	11457	131262849
11358	129004164	11408	130142464	11458	131285764
11359	129026881	11409	130165281	11459	131308681
11360	129049600	11410	130188100	11460	131331600
11361	129072321	11411	130210921	11461	131354521
11362	129095044	11412	130233744	11462	131377444
11363	129117769	11413	130256569	11463	131400369
11364	129140496	11414	130279396	11464	131423296
11365	129163225	11415	130302225	11465	131446225
11366	129185956	11416	130325056	11466	131469156
11367	129208689	11417	130347889	11467	131492089
11368	129231424	11418	130370724	11468	131515024
11369	129254161	11419	130393561	11469	131537961
11370	129276900	11420	130416400	11470	131560900
11371	129299641	11421	130439241	11471	131583841
11372	129322384	11422	130462084	11472	131606784
11373	129345129	11423	130484929	11473	131629729
11374	129367876	11424	130507776	11474	131652676
11375	129390625	11425	130530625	11475	131675625
11376	129413376	11426	130553476	11476	131698576
11377	129436129	11427	130576329	11477	131721529
11378	129458884	11428	130599184	11478	131744484
11379	129481641	11429	130622041	11479	131767441
11380	129504400	11430	130644900	11480	131790400
11381	129527171	11431	130667761	11481	131813361
11382	129549924	11432	130690624	11482	131836324
11383	129572689	11433	130713489	11483	131859289
11384	129595456	11434	130736356	11484	131882256
11385	129618225	11435	130759225	11485	131905225
11386	129640996	11437	130782096	11486	535928196
11387	129663769	11437	130804969	11487	131951169
11388	129686544	11438	130827844	11488	131974144
11389	129709321	11439	130850721	11489	131997121
11390	129732100	11440	134873600	11490	132020100
11391	129754881	11441	130896481	11491	132043081
11392	129777664	11442	130919364	11492	132066064
11393	129800449	11443	130942249	11493	132089049
21394	129823236	11444	130965136	11494	132112036
11395	129846025	11445	130988025	11495	132135025
11396	129868816	11446	131010916	11496	132158016
11397	129891609	11447	131033809	11497	132181009
11398	129914404	11448	131056704	11498	132204004
11399	129937201	11449	111079601	11499	132227001
11400	129960000	11450	131102500	11500	132250000

11 M. 5 C.		11 M. 7 C.		11 M. 6 C.	
R.	Sq.	R.	Sq.	R.	Sq.
11501	132273001	11551	133425601	11601	134583201
11502	132296004	11552	133448704	11602	134606404
11503	132319009	11553	133471809	11603	134629609
11504	132342016	11554	133494916	11604	134652816
11505	132365025	11555	133518025	11605	134676025
11506	132388036	11556	133541136	11606	134699236
11507	132411049	11557	133564249	11607	134722449
11508	132434064	11558	133587364	11608	134745664
11509	132457081	11559	133610481	11609	134768881
11510	132480100	11560	133633600	11610	134792 00
11511	132503121	11561	133656721	11611	134815321
11512	132526144	11562	133679844	11612	134838544
11513	132549169	11563	133702969	11613	134861769
11514	132572196	11564	133726096	11614	134884996
11515	132595225	11565	133749225	11615	134908225
11516	132618256	11566	133772356	11616	134931456
11517	132641289	11567	133795489	11617	134954689
11518	132664324	11568	133818624	11618	134977924
11519	132687361	11569	133841761	11619	135001161
11520	132710400	11570	133864900	11620	135024400
11521	132733441	11571	133888041	11621	135047641
11522	132756484	11572	133911184	11622	135070884
11523	132779529	11573	133934329	11623	135094129
11524	132802576	11574	133957476	11624	135117376
11525	132825625	11575	133980625	11625	135140625
11526	132848676	11576	134003776	11626	135163876
11527	132871729	11577	134026929	11627	135187129
11528	132894784	11578	134050084	11628	135210384
11529	132917841	11579	134073241	11629	135233641
11530	132940900	11580	134096400	11630	135256900
11531	132963961	11581	134119561	11631	135280161
11532	132987024	11582	134142724	11632	135303424
11533	133010089	11583	134165889	11633	135326 89
19534	133033156	11584	134189056	11634	135349956
11535	133056225	11585	134212225	11635	135373225
11536	133079296	11586	134235396	11636	135396496
11537	133102369	11587	134258569	11637	135419769
11538	133125444	11588	134281744	11638	135443044
11539	133148521	11589	134304921	11639	135466321
11540	133171600	11590	134328100	11640	135489600
11541	133194681	11591	134351281	11641	135512881
11542	133217764	11592	134374464	11642	135536164
11543	133240849	11593	135397649	11643	135559449
11544	133263936	11594	134420836	11644	135582736
11545	133287025	11595	134444025	11645	135606025
11546	133310116	11596	1344672 6	11646	135629316
11547	133333209	11597	134490409	11647	135652609
11548	133356304	11598	134513604	11648	135675904
11549	133379401	11599	134536801	11649	135699201
11550	133402500	11600	134560000	11650	135722500

11 M. 6 C.		11 M. 7 C.		11 M. 7 C.	
R.	Sq.	R.	S q.	R.	Sq.
11651	135745801	11701	136913401	11751	138086001
11652	135769104	11702	136936804	11752	138109504
11653	135792409	11703	136960209	11753	138133009
11654	135815716	11704	136983616	11754	138156516
11655	135839025	11705	137007025	11755	138180025
11656	135862336	11706	137030436	11756	138203536
11657	535885649	11707	137053849	11757	138227049
11658	135908964	11708	137077264	11758	138250564
11659	135932281	11709	137100681	11759	138274081
11660	135955600	11710	137124100	11760	138297600
11661	135978921	11711	137147521	11761	138321121
11662	136002244	11712	137170944	11762	138344644
11663	136025569	11713	137194369	11763	138368169
11664	136048896	11714	137217796	11764	138391696
11665	136072225	11715	137241225	11765	138415225
11666	136095556	11716	137264656	11766	138438756
11667	136118889	11717	137288089	11767	138462289
11668	136142224	11718	137311524	11768	138485824
11669	136165561	11719	137334961	11769	138509361
11670	136188900	11720	137358400	11770	138532900
11671	136212241	11721	137381841	11771	138556441
11672	136235584	11722	137405284	11772	138579984
11673	136258929	11723	137428729	11773	138603529
11674	136282276	11724	137452176	11774	138627076
11675	136305625	11725	137475625	11775	138650625
11676	136328976	11726	137499076	11776	138674176
11677	136352329	11727	137522529	11777	138697729
11678	136375684	11728	137545984	11778	138721284
11679	136399041	11729	133569441	11779	138744841
11680	133422400	11730	137592900	11780	138768400
11681	136445761	11731	137616361	11781	138791961
11682	136469124	11732	137639824	11782	138825524
11683	136492489	11733	137663289	11783	138839089
11684	136515856	11734	137686756	11784	138862656
11685	136539225	11735	137710225	11785	138886225
11686	136562596	11736	137733696	11786	138909796
11687	136585969	11737	137757169	11787	138933369
11688	136609344	11738	137780644	11788	138956944
11689	136632721	11739	137804121	11789	138980521
11690	136656100	11740	137827600	11790	139004100
11691	136679481	11741	137851081	11791	139027681
11692	136702864	11742	137874564	11792	139051264
11693	136726249	11743	137898049	11793	139074849
11694	136749636	11744	137921536	11794	139098436
11695	136773025	11745	137945025	11795	139122025
11696	136796416	11746	137968516	11796	139145616
11697	136819809	11747	137992009	11797	139169209
11698	136843204	11748	138015504	11798	139192804
11699	136866601	11749	138039001	11799	139216401
11700	136890000	11750	138062500	11800	139240000

R.	Sq.	R.	Sq.	R.	Sq.
11801	139263601	11851	140446201	11901	141633801
11802	139287204	11852	140469904	11902	141657604
11803	139310809	11853	140493609	11903	141681409
11804	139334416	11854	140517316	11904	141705216
11805	139358025	11855	140541025	11905	141729025
11806	139381636	11856	140564736	11906	141752836
11807	139405249	11857	140588449	11907	141776649
11808	139428864	11858	140612164	11908	141800464
11809	139452481	11859	140635881	11909	141824281
11810	139476100	11860	140659600	11910	141848100
11811	139499721	11861	140683321	11911	141871921
11812	139523344	11862	140707044	11912	141895744
11813	139546969	11863	140730769	11913	141919569
11814	139570596	11864	140754496	11914	141943395
11815	139594225	11865	140778225	11915	141967225
11816	139617856	11866	140801956	11916	141991056
11817	139641489	11867	140825689	11917	142014889
11818	139665124	11868	140849424	11918	142038724
11819	139688761	11869	140873161	11919	142062561
11820	139712400	11870	140896900	11920	142086400
11821	139736041	11871	140920641	11921	142110241
11822	139759684	11872	140944384	11922	142134084
11823	139783329	11873	140968129	11923	142157929
11824	139806976	11874	140991876	11924	142181776
11825	139830625	11875	141015625	11925	142205625
11826	139854276	11876	141039376	11926	142229476
11827	139877939	11877	141063129	11927	142253329
11828	139901584	11878	141086884	11928	142277184
11829	139925241	11879	141110641	11929	142301041
11830	139948900	11880	141134400	11930	142324900
11831	139972561	11881	141158161	11931	142348761
11832	139996224	11882	141181924	11932	142372624
11833	140019889	11883	141205689	11933	142396489
11834	140043556	11884	141229456	11934	142420356
11835	140067225	11885	141253225	11935	142444225
11836	140090896	11886	141276996	11936	142468096
11837	140114569	11887	141300769	11937	142491969
11838	140138244	11888	141324544	11938	142515844
11839	140161921	11889	141348321	11939	142539721
11840	140185600	11890	141372100	11940	142563600
11841	140209281	11891	141395881	11941	142587481
11842	140232964	11892	141419664	11942	142611364
11843	140256649	11893	141443449	11943	142635249
11844	140280336	11894	141467236	11944	142659136
11845	140304025	11895	141491025	11945	142683025
11846	140327716	11896	141514816	11946	142706916
11847	140351409	11897	141538609	11947	142730809
11848	140375104	11898	141562404	11948	142754704
11849	140398801	11899	141586201	11949	142778601
11850	140422500	11900	141610000	11950	142802500

R.	Sq.	R.	Sq.	R.	Sq.
11951	142826401	12001	144024001	12051	145226601
11952	142850304	12002	144048004	12052	145250704
11953	142874209	12003	144072009	12053	145274809
11954	142898116	12004	144096016	12054	145298916
11955	142922025	12005	144120025	12055	145323025
11956	142945936	12006	144144036	12056	145347136
11957	142969849	12007	144168049	12057	145371249
11958	142993764	12008	144192064	12058	145395364
11959	143017681	12009	144216081	12059	145419481
11960	143041600	12010	144240100	12060	145443600
11961	143065521	12011	144264121	12061	145467721
11962	143089444	12012	144288144	12062	145491844
11963	143113369	12013	144312169	12063	145515969
11964	143137296	12014	144336196	12064	145540096
11965	143161225	12015	144360225	12065	145564225
11966	143185156	12016	144384256	12066	145588356
11967	143209089	12017	144408289	12067	145612489
11968	143233024	12018	144432324	12068	145636624
11969	143256961	12019	144456361	12069	145660761
11970	143280900	12020	144480400	12070	145684900
11971	143304841	12021	144504441	12071	145709041
11972	143328784	12022	144528484	12072	145733184
11973	143352729	12023	144552529	12073	145757329
11974	143376676	12024	144576576	12074	145781476
11975	143400625	12025	144600625	12075	145805625
11976	143424576	12026	144624676	12076	145829776
11977	143448529	12027	144648729	12077	145853929
11978	143472484	12028	144672784	12078	145878084
11979	143496441	12029	144696841	12079	145902241
11980	143520400	12030	144720900	12080	145926400
11981	143544361	12031	144744961	12081	145950561
11982	143568324	12032	144769024	12082	145974724
11983	143592289	12033	144793089	12083	145998889
11984	143616256	12034	144817156	12084	146023056
11985	143640225	12035	144841225	12085	146047225
11986	143664196	12036	144865296	12086	146071396
11987	143688169	12037	144889369	12087	146095569
11988	143712144	12038	144913444	12088	146119744
11989	143736121	12039	144937521	12089	146143921
11990	143760100	12040	144961600	12090	146168100
11991	143784081	12041	144985681	12091	146192281
11992	143808064	12042	145009764	12092	146216464
11993	143832049	12043	145033849	12093	146240649
11994	143856036	12044	145057936	12094	146264836
11995	143880025	12045	145082025	12095	146289025
11996	143904016	12046	145106116	12096	146313216
11997	143928009	12047	145130209	12097	146337409
11998	143952004	12048	145154304	12098	146361604
11999	143976001	12049	145178401	12099	146385801
12000	144000000	12050	145202500	12100	146410000

R.	Sq.	R.	Sq.	R.	Sq.
12101	146434201	12151	147646801	12201	148864401
12102	146458404	12152	147671104	12202	148888804
12103	146482609	12153	147695409	12203	148913209
12104	146506816	12154	147719716	12204	148937616
12105	146531025	12155	147744025	12205	148962025
12106	146555236	12156	147768336	12206	148986436
12107	146579449	12157	147792649	12207	149010849
12108	146603664	12158	147816964	12208	149035264
12109	146627881	12159	147841281	12209	149059681
12110	146652100	12160	147865600	12210	149084100
12111	146676321	12161	147889921	12211	149108521
12112	146700544	12162	147914244	12212	149132944
12113	146724769	12163	147938569	12213	149157369
12114	146748996	12164	147962896	12214	149181796
12115	146773225	12165	147987225	12215	149206225
12116	146797456	12166	148011556	12216	149230656
12117	146821689	12167	148035889	12217	149255089
12118	146845924	12168	148060224	12218	149279524
12119	146870161	12169	148084561	12219	149303961
12120	146894400	12170	148108900	12220	149328400
12121	146918641	12171	148133241	12221	149352841
12122	146942884	12172	148157584	12222	149377284
12123	146967129	12173	148181929	12223	149401729
12124	146991376	12174	148206276	12224	149426179
12125	147015625	12175	148230625	12225	149450625
12126	147039876	12176	148254976	12226	149475076
12127	147064129	12177	148279329	12227	149499529
12128	147088384	12178	148303684	12228	149523984
12129	147112641	12179	148328041	12229	149548441
12130	147136900	12180	148352400	12230	149572900
12131	147161161	12181	148376761	12231	149597361
12132	147185424	12182	148401124	12232	149621824
12133	147209689	12183	148425489	12233	149646289
12134	147233956	12184	148449856	12234	149670756
12135	147258225	12185	148474225	12235	149695225
12136	147282496	12186	148498596	12236	149719696
12137	147306769	12187	148522969	12237	149744169
12138	147331044	12188	148547344	12238	149768644
12139	147355321	12189	148571721	12239	149793121
12140	147379600	12190	148596100	12240	149817600
12141	147403881	12191	148620481	12241	149842081
12142	147428164	12192	148644864	12242	149866564
12143	147452449	12193	148669249	12243	149891049
12144	147476736	12194	148693636	12244	149915536
12145	147501025	12195	148718025	12245	149940025
12146	147525316	12196	148742416	12246	149964516
12147	147549609	12197	148766809	12247	149989009
12148	147573904	12198	148791204	12248	150013504
12149	147598201	12199	148815601	12249	150038001
12150	147622500	12200	148840000	12250	150062500

R.	Sq.	R.	Sq.	R.	Sq.
12251	150087001	12301	151314601	12351	152547201
12252	150111504	12302	151339204	12352	152571904
12253	150136009	12303	151363809	12353	152596709
12254	150160516	12304	151388416	12354	152621316
12255	150185025	12305	151413025	12355	152646025
12256	150209536	12306	151437636	12356	152670736
12257	150234049	12307	151462249	12357	152695449
12258	150258564	12308	151486864	12358	152720164
12259	150283081	12309	151511481	12359	152744881
12260	150307600	12310	151536100	12360	152769600
12261	150332121	12311	151560721	12361	152794321
12262	150356644	12312	151585344	12362	152819044
12263	150381169	12313	151609969	12363	152843769
12264	150405696	12314	151634596	12364	152868496
12265	150430225	12315	451659225	12365	152893225
12266	150454756	12316	151683856	12366	152917956
12267	150479289	12317	151708489	12367	152942689
12268	150503824	12318	151533124	12368	152967424
12269	150528361	12319	151757761	12369	152992161
12270	150552900	12320	151782400	12370	153016900
12271	150577441	12321	151807041	12371	153041641
12272	150601984	12322	151831684	12372	153066384
12273	150626529	12323	151856329	12373	153091129
12274	150651076	12324	151880976	12374	153115876
12275	150675625	12325	151905625	12375	153140625
12276	150700176	12326	151930276	12376	153165376
12277	150724729	12327	151954929	12377	153190129
12278	150749284	12328	151979584	12378	153214884
12279	150773841	12329	152004241	12379	153239641
12280	150798400	12330	152028900	12380	153264400
12281	150822961	12331	152053561	12381	153289161
12282	150847524	12332	152078224	12382	153313924
12283	150872089	12333	152102889	12383	153338689
12284	150896656	12334	152127556	12384	153363456
12285	150921225	12335	152152225	12385	153388225
12286	150945796	12336	152176896	12386	153412996
12287	150970369	12337	152201569	12387	153437769
12288	150994944	12338	152226244	12388	153462544
12289	151019521	12339	152250921	12389	153487321
12290	151044100	12340	152275600	12390	153512100
12291	151068681	12341	152300281	12391	153536881
12292	151093264	12342	152324964	12392	153561664
12293	151117849	12343	152349649	12393	153586449
12294	151142436	12344	152374336	12394	153611236
12295	151167025	12345	152399025	12395	153636025
12296	151191616	12346	152423716	12396	153660816
12297	151216209	12347	152448409	12397	153685609
12298	151240804	12348	152473104	12398	153710404
12299	151265401	12349	152497801	12399	153735201
12300	151290000	12350	152522500	12400	153760000

R.	Sq.	R.	Sq.	R.	Sq.
12401	153784801	12451	155027401	12501	156275001
12402	153809604	12452	155052304	12502	156300004
12403	153834409	12453	155077209	12503	156325009
12404	153859216	12454	155102116	12504	156350016
12405	153884025	12455	155127025	12505	156375025
12406	153908836	12456	155151936	12506	156400036
12407	153933649	12457	155176849	12507	156425049
12408	153958464	12458	155201764	12508	156450064
12409	153983241	12459	155226681	12509	156475081
12410	154008100	12460	155251600	12510	156500100
12411	154032921	12461	155276521	12511	156525121
12412	154057744	12462	155301444	12512	156550144
12413	154082569	12463	155326369	12513	156575169
12414	154107396	12464	155351296	12514	156600196
12415	154132225	12465	155376225	12515	156625225
12416	154157056	12466	155401156	12516	156650256
12417	154181889	12467	155426089	12517	156675289
12418	154206724	12468	155451024	12518	156700324
12419	154231561	12469	155475961	12519	156725361
12420	154256400	12470	155500900	12520	156750400
12421	154281241	12471	155525841	12521	156775441
12422	154306084	12472	155550784	12522	156800484
12423	154330929	12473	155575729	12523	156825529
12424	154355776	12474	155600676	12524	156850576
12425	154380625	12475	155625625	12525	156875625
12426	154405476	12476	155650576	12526	156900676
12427	154430329	12477	155675529	12527	156925729
12428	154455184	12478	155700484	12528	156950784
12429	154480041	12479	155725441	12529	156975841
12430	154504900	12480	155750400	12530	157000900
12431	154529761	12481	155775361	12531	157025961
12432	154554624	12482	155800324	12532	157051024
12433	154579489	12483	155825289	12533	157076089
12434	154604356	12484	155850256	12534	157101156
12435	154629225	12485	155875225	12535	157126225
12436	154654096	12486	155900196	12536	157151296
12437	154678969	12487	155925169	12537	157176369
12438	154703844	12488	155950144	12538	157201444
12439	154728721	12489	155975121	12539	157226521
12440	154753600	12490	156000100	12540	157251600
12441	154778481	12491	156025081	12541	157276681
12442	154803364	12492	156050064	12542	157301764
12443	154828249	12493	156075049	12543	157326849
12444	154853136	12494	156100036	12544	157351936
12445	154878025	12495	156125025	12545	157377025
12446	154902916	12496	156150016	12546	157402116
12447	154927809	12497	156175009	12547	157427209
12448	154952704	12498	156200004	12548	157452304
12449	154977601	12499	156225001	12549	157477401
12450	155002500	12500	156250000	12550	557502500

R.	Sq.	R.	Sq.	R.	Sq.
12551	157527601	12601	158785201	12651	160047801
12552	157552704	12602	158810404	12652	160073104
12553	157577809	12603	158835609	12653	160098409
12554	157602916	12604	158860816	12654	160123716
12555	157628025	12605	158886025	12655	160149025
12556	157653136	12606	158911236	12656	160174336
12557	157678249	12607	158936449	12657	160199649
12558	157703364	12608	158961664	12658	160224964
12559	157728481	12609	159986881	12659	160250281
12560	157753600	12610	159012100	12660	160275600
12561	157778721	12611	159037321	12661	160300921
12562	157803844	12612	159062544	12662	160326244
12563	157828969	12613	159087769	12663	160351569
12564	557854096	12614	159112996	12664	160376896
12565	157879225	12615	159138225	12665	160402225
12566	157904356	12616	159163456	12666	160427556
12567	157929489	12617	159188689	12667	160452889
12568	157954624	12618	159213924	12668	160478224
12569	157979761	12619	159239161	12669	160503561
12570	158004900	12620	159264400	12670	160528900
12571	158030041	12621	159289641	12671	160554241
12572	158055184	12622	159314884	12672	160579584
12573	158080329	12623	159340129	12673	166604929
12574	158105476	12624	159365376	12674	160630276
12575	158130625	12625	159390625	12675	160655625
12576	158155776	12626	159415876	12676	160680976
12577	158180929	12627	159441129	12677	160706329
12578	158206084	12628	159466384	12678	160731684
12579	158231241	12629	159491641	12679	160757041
12580	158256400	12630	159516900	12680	160782400
12581	158281561	12631	159542161	12681	160807761
12582	158306724	12632	159567424	12682	160833124
12583	158331889	12633	159592689	12683	160858489
12584	158357056	12634	159617956	12684	160883856
12585	158382225	12635	159643225	12685	160909225
12586	158407396	12636	159668496	12686	160934596
12587	158432569	12637	159693769	12687	160959969
12588	158457744	12638	159719044	12688	160985344
12589	158482921	12639	159744321	12689	161010721
12590	158508100	12640	159769600	12690	161036100
12591	158533281	12641	159794881	12691	161061481
12592	158558464	12642	159820164	12692	161086864
12593	158583649	12643	159845449	12693	161112249
12594	158608836	12644	159870736	12694	161137636
12595	158634025	12645	159896025	12695	161163025
12596	158659216	12646	159921316	12696	161188416
12597	158684409	12647	159946609	12697	161213809
12598	158709604	12648	159971904	12698	161239204
12599	158734801	12649	159997201	12699	161264601
12600	158760000	12650	160022500	12700	161290000

R.	Sq.	R	Sq.	R.	Sp,
12701	161315401	12751	162588001	12801	163865601
12702	161340804	12752	162613504	12802	163891204
12703	161366209	12753	162639009	12803	163916809
12704	161391616	12754	162664516	12804	163942416
12705	161417025	12755	162690025	12805	163968025
12706	161442436	12756	162715536	12806	163993636
12707	161467849	12757	162741049	12807	164019249
12708	161493264	12758	162766564	12808	164044864
12709	161518681	12759	162792081	12809	164070481
12710	161544100	12760	162817600	12810	164096100
12711	161569521	12761	162843121	12811	164121721
12712	161594944	12762	162868644	12812	164147344
12713	161620369	12763	162894169	12813	164172969
12714	161645796	12764	162919696	12814	164198596
12715	161671225	12765	162945225	12815	164224225
12716	161696656	12766	162970756	12816	164249856
12717	161722089	12767	162996289	12817	164275489
12718	161747524	12768	163021824	12818	164301124
12719	161772961	12769	193047391	12819	164326761
12720	161798400	12770	163072900	12820	164352400
12721	161823841	12771	163098441	12621	164378041
12722	161849284	12772	163123984	12822	164403684
12723	161874729	12773	163149529	12823	164429329
12724	161900176	12774	163175076	12824	164454976
12725	161925625	12775	163200625	12825	164480625
12726	161951076	12776	163226176	12826	164506276
12727	161976529	12777	163251729	12827	164531929
12728	162001984	12778	163277284	12828	164557584
22729	162027441	12779	163302841	12829	164583241
12730	162052900	12780	163328400	12830	164608900
12731	162078361	12781	163353961	12831	164634561
12732	162103824	12782	163379524	12832	164660224
12733	162129289	12783	163405089	12833	164685885
12734	162154756	12784	163430656	12834	164711556
12735	162180225	12785	163456225	12835	164737225
12836	162205696	12786	163481796	12836	164762896
12737	162231169	12787	163507369	12837	164788569
12738	162256644	12788	163532944	12838	164814244
12739	162282121	12789	163558521	12839	164839921
12740	162307600	12790	163584100	12840	164865600
12741	162333081	12791	163609681	12841	164891281
12742	162358564	12792	163635264	12842	164916964
12743	162384049	12793	163660849	12843	164942649
12744	162409536	12794	163686436	12844	164968336
12745	162435025	12795	163712025	12845	164994025
12746	162460516	32796	163737616	12846	165019716
12747	162486009	12797	163763209	12847	165045409
12748	162511504	12798	163788804	12848	165071104
12749	162537001	12799	163814401	12849	165096801
12750	162562500	12800	163840000	12850	165122500

R.	Sq.	R.	Sq.	R.	Sq.
12851	165148201	12901	166435801	12951	167728401
12852	165173904	12902	166461604	12952	167754304
12853	165199609	12903	166487409	12953	167780209
12854	165225316	12904	166513216	12954	167806116
12855	165251025	12905	166539025	12955	167832025
12856	165276736	12906	166564836	12956	167857936
12857	165302449	12907	166590649	12957	167883849
12858	165328164	12908	166616464	12958	167909764
12859	165353881	12909	166642281	12959	167935681
12860	165379600	12910	166668100	12960	167961600
12861	165405321	12911	166693921	12961	167987521
12862	165431044	12912	166719744	12962	168013444
12863	165456769	12913	166745569	12963	168039369
12864	165482496	12914	166771396	12964	168065296
12865	165508225	12915	166797225	12965	168091225
12866	165533956	12916	166823056	12966	168117156
12867	165559689	12917	166848889	12967	168143089
12868	165585424	12918	166874724	12968	168169024
82869	165611161	12919	166900561	12969	168194961
12870	165636900	12420	166926400	12970	168220900
12871	165662641	12921	166952241	12971	168246841
12872	165688384	12922	166978084	12972	168272784
12873	165714129	12923	167003929	12973	168298729
12874	165739876	12924	167029776	12974	168324676
12875	165765625	12925	167055625	12975	168350625
12876	165791376	12926	167081476	12976	168376576
12877	165817129	12927	167107329	12977	168402529
12878	165842884	12928	167133184	12978	168428484
12879	165868641	12929	167159041	12979	168454441
12880	165894400	12930	167184900	12980	168480400
12881	165920161	12931	167210761	12981	168506361
12882	165945924	12932	167236624	12982	168532324
12883	165971689	12933	167262489	12983	168558289
12884	165997456	12934	167288356	12984	168584256
12885	166023225	12935	167314225	12985	168610225
12886	166048996	12936	167340096	12986	168636196
12887	166074769	12937	167365969	12987	168662169
12888	166100544	12938	167391844	12988	168688144
12889	166126321	12939	167417721	12989	168714121
12890	166152100	12940	167443600	12990	168740100
12891	166177881	12941	167469481	12991	168766081
12892	166203664	12942	367495364	12992	168792064
12893	166229449	12943	167521249	12993	168818049
12894	166255236	12944	167547136	12994	168844036
12895	166281025	12945	167573025	12995	168870025
12896	166306816	12946	167598916	12996	168896016
12897	166332609	12947	167624809	12997	168922009
12898	166358404	12948	167650704	12998	168948004
12899	166384201	12649	167676601	12999	16897400[illegible]
12900	166410000	12950	167702500	13000	169000000

R.	Sq.	R.	Sq.	R.	Sq.
13001	169026001	13051	170328601	13101	171636201
13002	169052004	13052	170354704	13002	171662404
13003	169078009	13053	170380809	13103	171688609
13004	169104016	13054	170406916	13104	171714816
13005	169130025	13055	170433025	13105	171741025
13006	169156036	13056	170459136	13106	171767236
13007	169182049	13057	170485249	13107	171793449
13008	169208064	13058	170511364	13108	171819664
13009	169234081	13059	170537481	13109	171845881
13010	169260100	13060	170563600	13110	171872100
13011	169286121	13061	170589721	13111	171898321
13012	169312144	13062	170615844	13112	171924544
13013	169338169	13063	170641969	13113	171950769
13014	169364196	13064	170668096	13114	171976995
13015	169390225	13065	170694225	13115	172003225
13016	169416256	13066	170720356	13116	172029456
13017	169442289	13067	170746489	13117	172055689
13018	169468324	13068	170772624	13118	172081924
13019	169494361	13069	170798761	13119	172108161
13020	169520400	13070	170824900	13120	172134400
13021	169546441	13071	170851041	13121	172160641
13022	169572484	13072	170877184	13122	172186884
13023	169598529	13073	170903329	13123	172213129
13024	169624576	13074	170929476	13124	172239376
13025	169650625	13075	170955625	13125	172265625
13026	169676676	13076	170981776	13126	172291876
13027	169702729	13077	171007929	13127	472318129
13028	169728784	13078	171034084	13128	172344384
13029	169754841	13079	171060241	13129	172370641
13030	169780900	13080	171086400	13130	172396900
13031	169806961	13081	171112561	13131	172423161
13032	169833024	13082	171138724	13132	172449424
13033	169859089	13083	171164889	13133	172475689
13034	169885156	13084	171191056	13134	172501956
13035	169911225	13085	171217225	13135	172528225
13036	169937296	13086	171243396	13136	172554496
13037	169963369	13087	171269569	13137	172580769
13038	169989444	13088	171295744	13138	172607044
13039	170015521	13089	171321921	13139	172633321
13040	170041600	13090	171348100	13140	172659600
13041	170067681	13091	171374281	13141	172685881
13042	170093764	13092	171400464	13142	172712164
13043	170119849	13093	171426649	13143	172738449
13044	170145936	13094	171452836	13144	172764736
13045	170172025	13095	171479025	13145	172791025
13046	170198116	13096	171505216	13146	172817316
13047	170224209	13097	171531409	13147	172843609
13048	170250304	13098	171557604	13148	172869904
13049	170276401	13099	171583801	13149	172896201
13050	170302500	13100	171610000	13150	172922500

R.	Sq.	R.	Sq.	R.	Sq.
13151	172948801	13201	174266401	13251	175589001
13152	172975104	13202	174292804	13252	175615504
13153	173001409	13203	174319209	13253	175642009
13154	173027716	13204	174345616	13254	175668516
13155	173054025	13205	174372025	13255	175695025
18156	173080336	13206	174398436	13256	175721536
13157	173106649	13207	174424849	13257	175748049
13158	173132964	13208	174451264	13258	175774564
13159	173159281	13209	174477681	13259	175801081
13160	173185600	13210	174504100	13260	175827600
13161	173211921	13211	174530521	13261	175854121
13162	173238244	13212	174556944	13262	175880644
13163	173264569	13213	174583369	13263	175907169
13164	173290896	13214	174609796	13264	175933696
13165	173317225	13215	174636225	13265	175960225
13166	173343556	13216	174662656	13266	175986756
13167	173369889	13217	174689089	13267	176013289
13178	173396224	13218	174715524	13268	176039824
13169	173422561	13219	174741961	13269	176066361
13170	173448900	13220	174768400	13270	176091900
13171	173475241	13221	174794841	13271	176119441
13172	173501584	13222	174821284	13272	176145984
13173	173527929	13223	174847729	13273	176172529
13174	173554276	13224	174874176	13274	176199076
13175	173580625	13225	174900625	13275	176225625
13176	173606976	13226	174927076	13276	176252176
13177	173633329	13227	174953529	13277	176278729
13178	173659684	13228	174979984	13278	176305284
13179	173686041	13229	175006441	13279	176331841
13180	173712400	13230	175032900	13280	176358400
13181	173738761	13231	175059361	13281	176384961
13182	173765124	13232	175085824	13282	176411524
13183	173791489	13233	175112289	13283	176438089
13184	173817856	13234	175138756	13284	176464656
13185	173844225	13235	175165225	13285	176491225
13186	173870596	13236	175161996	13286	176517796
13187	173896969	13237	175218169	13287	176544369
13188	113923344	13238	175244644	13288	176570944
13189	173949721	13239	175271121	13289	176597521
13190	173976100	13240	175297600	13290	176624100
13191	174002401	13241	175324081	13291	176650681
13192	174028864	13242	175350564	13292	176677264
13193	174055249	13243	175377049	13293	176703849
13194	174081636	13244	175403536	13294	176730436
13195	174108025	13245	175430025	13295	176757025
13196	174134416	13246	175456516	13296	176783616
13197	174160809	13247	175483009	13297	176810209
13198	174187204	13248	175509504	13298	176836804
13199	174213601	13249	175536001	13299	176863401
13150	174240000	13250	175562500	13300	176890000

R.	Sp.	R.	Sq.	R.	Sq.
13301	176916601	13351	178249201	13401	179586801
13302	176943204	13352	178275904	13402	179613604
13303	176969809	13353	178302609	13403	179640409
13304	176996416	13354	178329316	13404	179667216
13305	177023025	13355	178356025	13405	179694025
13306	177049636	13356	178382736	13406	179720836
13307	177076279	13357	178409449	13407	179747649
13308	177102864	13358	178436164	13408	176774464
13309	177129481	13359	178462881	13409	179801281
13310	177156100	13360	178489600	13410	179828100
13311	177182721	13361	178516321	13411	179854921
13312	177209344	13362	178543044	13412	179881744
13313	177235969	13363	178569769	13413	179908569
13314	177262596	13364	178596406	13414	179935396
13315	177289225	13365	178623225	13415	179962225
13316	177315856	13366	178649956	13416	179989056
13317	177342489	13367	178676689	13417	180015889
13318	177369124	13368	178703424	13418	180042724
13319	177395761	13369	178730161	13419	180069561
13320	177422400	13370	178756900	13420	180096400
13321	177449041	13371	178783641	13421	180123241
13322	177475684	13372	178810384	13422	180150084
13323	177502329	13373	178837129	13423	180176929
13324	177528976	13374	178863876	13424	180203776
13325	177555625	13375	178890625	13425	190230625
13326	177582276	13376	178917376	13426	180257476
13327	177608929	13377	178944129	13427	180284329
13328	177635584	13378	178970884	13428	180311184
13329	177662241	13379	178997641	13429	180338041
13330	177688900	13380	179024400	13430	180364900
13331	177715561	13381	179051161	13431	180391761
13332	177742224	13382	179077924	13432	180418624
13333	177768889	13383	179104689	13433	180445489
13334	177795556	13384	179131456	13434	180472356
13335	177822225	13385	179158225	13435	180499225
13336	177848896	13386	179184996	13436	180526096
13337	177875569	13387	179211769	13437	180552969
13338	177902244	13388	179238544	13438	180579844
13339	177928921	13389	179265321	13439	180606721
13340	177955600	13390	179292100	13440	180633600
13341	177982281	13391	179318881	13441	180660481
13342	178008964	13392	179345664	13442	280687364
13343	178035649	13393	179372449	13443	180714249
13344	178062336	13394	179399236	13444	180741136
13345	178089025	13395	179426025	13445	180760025
13346	178115716	13396	179452816	13446	180794916
13347	178142409	13397	179479609	13447	180821809
13348	178169104	13398	179506404	13448	180848704
13349	178195801	13399	179533201	13449	180875601
13350	178222500	13400	179560000	13450	180902500

R.	Sq.	R.	Sq.	R.	Sq.
13451	180929401	13501	182277001	13551	183629601
13452	180956304	13502	182304004	13552	183656704
13453	180983209	13503	182331009	13553	183683809
13454	181010116	13504	182358016	13554	183710916
13455	181037025	13505	182385025	13555	183738025
13456	181063936	13506	182412036	13556	183765136
13457	181090849	13507	182439049	13557	183792249
13458	181117764	13508	182466064	18558	183819364
13459	181144681	13509	182493081	13559	183846481
13460	181171600	13510	182520100	13560	183873600
13461	181198521	13511	182547121	13561	183900721
13462	181225444	13512	182574144	13562	183927844
13463	181252369	13513	182601169	13563	183954969
13464	181279296	13514	182628196	13564	183982096
13465	181306225	13515	182655225	13565	184009225
13466	181333156	13516	182682256	13566	184036356
13467	181360089	13517	182709285	13567	184063489
13468	181387024	13518	182736324	13568	184090624
13469	181413961	13519	182763361	13569	184117761
13470	181440900	13520	182790400	13570	184144900
13471	181467841	13521	182817441	13571	184172041
13472	181494784	13522	182844484	13572	184199184
13473	181521729	13523	182871529	13573	184226329
13474	181548676	13524	182898576	13574	184253476
13475	181575625	13525	182925625	13575	184280625
13476	181602576	13526	182952676	13576	184307776
13477	181629529	13527	182979729	13577	184334929
13478	181656484	13528	183006784	13578	184362084
13479	181683441	13529	183033841	13579	184389241
13480	181710400	13530	183060900	13580	184416400
13481	181737361	13531	183087961	13581	184443561
13482	181764324	13532	183115024	13582	184470724
13483	181791289	13533	183142089	13583	184497889
13484	181818256	13534	183169156	13584	184525056
13485	181845225	13535	183196225	13585	184552225
13486	181872196	13536	183223296	13586	184579396
13487	181899169	13537	183250369	13587	184606569
13488	181926144	13538	183277444	13588	184633744
13489	181953121	13539	183304521	13589	184660921
13490	181980100	13540	183331600	13590	184688100
13491	182007081	13541	183358681	13591	184715281
13492	182034064	13542	183385764	13592	184742464
13493	182061049	13543	183412849	13593	184769649
13494	182088036	13544	183439936	13594	184796836
13495	182115025	13545	183467025	13595	184824025
13496	182142016	13546	183494116	13596	184831216
13497	182169009	13547	183521209	13597	184878409
13498	182196004	13548	183548304	13598	184905604
13499	182223001	13549	183575401	13599	184932801
13500	182250000	13550	183602500	13100	184960000

R.	Sq.	R.	Sq.	R.	Sq.
13601	184987201	13651	186349801	13701	187717401
13602	185014404	13652	186377104	13702	187744804
13603	185041609	13653	186404409	13703	187772209
13604	185068816	13654	186431716	13704	187799616
13605	185096025	13655	186459025	13705	187827025
13606	185123236	13656	186486336	13706	187854436
13607	185150449	13657	186513649	13707	187881849
13608	185177664	13658	186540964	13708	187909264
13609	185204881	13659	186968281	13709	187936681
13610	185232100	13660	186595600	13710	187964100
13611	185259321	13661	186622921	13711	187991521
13612	185286544	13662	186650244	13712	188018944
13613	185313769	13663	186677569	13713	188046369
13614	185340996	13664	186704896	13714	188073796
13615	185368225	13665	186732225	13715	188101225
13616	185395456	13666	186759556	13716	188128656
13617	185422689	13667	186786889	13717	188156089
13618	185449924	13668	186814224	13718	188183524
13619	185477161	13669	186841561	13719	188210961
13620	185504400	13670	186868900	13720	188238400
13621	185531641	13671	186896241	13721	188265841
13622	185558884	13672	186923584	13722	188293284
13623	185586129	13673	186950929	13723	188320729
13624	185613376	13674	186978276	13724	188348176
13625	185640625	13675	187005625	13725	188375625
13626	185667876	13676	187032976	13726	188403076
13627	185695129	13677	187060329	13727	188430529
13628	185722384	13678	187087684	13728	188457984
13629	185749641	13679	187115041	13729	188485441
13630	185776900	13680	187142400	13730	188512900
13631	185804161	13681	187169761	13731	188540361
13632	185831424	13682	187197124	13732	188567824
13633	185858689	13683	187224489	13733	188595289
13634	185885956	13684	187251856	13734	188622756
13635	185913225	13685	187279225	13735	188650225
13636	185940496	13686	187306596	13736	188677696
13637	185967769	13687	187333969	13737	188705169
13638	185995044	13688	187361344	13738	188732644
13639	186022321	13689	187388721	13739	188760121
13640	186049600	13690	187416100	13740	188787600
13641	186076881	13691	187443481	13741	188815081
13642	186104164	13692	187470864	13742	188842564
13643	186131449	13693	187498249	13743	188870049
13644	186158736	13694	187525636	13744	188897536
13645	186186025	13695	187553025	13745	188925025
13646	186213316	13696	187580416	13746	188952516
13647	186240609	13697	187607809	13747	188980009
13648	186267904	13698	187635204	13748	189007504
13649	186295201	13699	187662601	13749	189035001
13650	186322500	13700	187690000	13750	189062500

R.	Sq.	R.	Sq.	R.	Sq.
13751	189090001	13801	190467601	13851	191850201
13752	189117504	13802	190495204	13852	191877904
13753	189145009	13803	190522809	13853	191905609
13754	189172516	13804	190550416	13854	191933316
13755	189200025	13805	190578025	13855	191961025
13756	189227536	13806	190605636	13856	191988736
13757	189255049	13807	190633249	13857	192016449
13758	189382564	13808	190660864	13858	192044164
13759	189310081	13809	190688481	13859	192071881
13760	189337600	13810	190716100	13860	192099600
13761	189365121	13811	190743721	13861	192127521
13762	189392644	13812	190771344	13862	192155044
13763	189420169	13813	190798969	13863	192182769
13764	189447696	13814	190826596	13864	192210496
13765	189475225	13815	190854225	13865	192238225
13766	189502756	13816	190881856	13866	192265956
13767	189530289	13817	190909489	13867	192293689
13768	189557824	13818	190937124	13868	192321424
13769	189585361	13819	190964761	13869	192349161
13770	189612900	13820	190992400	13870	192376900
13771	189640441	13821	191020041	13871	192404641
13772	189667984	13822	191047684	13872	192432384
13773	189695529	13823	191075329	13873	192460129
13774	189723076	13824	191102976	13874	192487876
13775	189750625	13825	191130625	13875	192515625
13776	189778176	13826	191158276	13876	192543376
13777	189805729	13827	191185929	13877	192571129
13778	189833284	13828	191213584	13878	192598884
13779	189860841	13829	191241241	13879	192626641
13780	189888400	13830	191268900	13880	192654000
13781	189915961	13831	191296561	13881	192682161
13782	189943524	13832	191324224	13882	192709924
13783	189971089	13833	191351889	13883	192737689
13784	189998656	13834	191379556	13884	192765456
13785	190026225	13835	191407225	13885	192793225
13786	190053796	13836	191434896	13886	192820996
13787	190081369	13837	191462569	13887	192848769
13788	190108944	13838	191490244	13888	192876544
13789	190136521	13839	191517921	13889	192904321
13790	190164100	13840	191545600	13890	192932100
13791	190191681	13841	191573281	13891	192959881
13792	190219264	13842	191600964	13892	192987664
13793	190246849	13843	191628649	13893	193015449
13794	190274436	13844	191656336	13894	193033236
13795	190302025	13845	191684025	13895	193071025
13796	190329616	13846	191711716	13896	193098816
13797	190357209	13847	191739409	13897	193126609
13798	190384804	13848	191767104	13898	193154404
13799	190412401	13849	191794801	13899	193182201
13800	190440000	13850	191822500	13900	193210000

R.	Sq.	R.	Sq.	R.	Sq.
13901	193237801	13951	194630401	14001	196028001
13902	193265604	13952	194658304	14002	196056004
13903	193293409	13953	194686209	14003	196084009
13904	193321216	13954	194714116	14004	196112016
13905	193349025	13955	194742025	14005	196140025
13906	193376836	13956	194769936	14006	196168036
13907	193404649	13957	194797849	14007	196196049
13908	193432464	13958	194825764	14008	196224064
13909	193460281	13959	194853681	14009	196252081
13910	193488100	13960	194881600	14010	196280100
13911	193515921	13961	194909521	14011	196308121
13912	193543744	13962	194937444	14012	196336144
13913	193571569	13963	194965369	14013	196364169
13914	193599396	13964	194993296	14014	196392196
13915	193627225	13965	195021225	14015	196420225
13916	193655056	13966	195049156	14016	196448256
13917	193682889	13967	195077089	14017	196476289
13918	193710724	13968	195105024	14018	196504324
13919	193738561	13969	195132961	14019	196532361
13920	193766400	13970	195160900	14020	196560400
13921	193794241	13971	195188841	14021	196588441
13922	193822084	13972	195216784	14022	196616484
13923	193849929	13973	195244729	14023	196644529
13924	193877776	13974	195272676	14024	196672576
13925	193905625	13975	195300625	14025	196700625
13926	193933476	13976	195328576	14026	196728676
13927	193961329	13977	195356529	14027	196756729
13928	193989184	13978	195384484	14028	196784784
13929	194017041	13979	195412441	14029	196812841
13930	194044900	13980	195440400	14030	196840900
13931	194072761	13981	195468361	14031	196868961
13932	194100624	13982	195496324	14032	196897024
13933	194128489	13983	195524289	14033	196925089
13934	194156356	13984	195552256	14034	196953156
13935	194184225	13985	195580225	14035	196981225
13936	194212096	13986	195608196	14036	197009296
13937	194239969	13987	195636169	14037	197037369
13938	194267844	13988	195664144	14038	197065444
13939	194295721	13989	195692121	14039	197093521
13940	194323600	13990	195720100	14040	197121600
13941	194351481	13991	195748081	14041	197149681
13942	194379364	13992	195776064	14042	197177764
13943	194407249	13993	195804049	14043	197205849
13944	194435136	13994	195832036	14044	197233936
13945	194463025	13995	195860025	14045	197262025
13946	194490916	13996	195888016	14046	197290116
13947	194518809	13997	195916009	14047	197318209
13948	194546704	13998	195944004	14048	197346304
13949	194574601	13999	195972001	14049	197374401
13950	194602500	14000	196000000	14050	197402500

R.	Sq.	R.	Sq.	R.	Sq.
14051	197430601	14101	198838201	14151	200250801
14052	197458704	14102	198866404	14152	200279104
14053	197486809	14103	198894609	14153	200307409
14054	197514916	14104	198922816	14154	200335716
14055	197543025	14105	198951025	14155	200364025
14056	197571136	14106	198979236	14156	200392336
14057	197599249	14107	199007449	14157	200420649
14058	197627364	14108	199035664	14158	200448964
14059	197655481	14109	199063881	14159	200477281
14060	197683600	14110	199092100	14160	200505600
14061	197711721	14111	199120321	14161	200533921
14062	197739844	14112	199148544	14162	200562244
14063	197767969	14113	199176769	14163	200590569
14064	197796096	14114	199204996	14164	200618896
14065	197824225	14115	199233225	14165	200647225
14066	197852356	14116	199261456	14166	200675556
14067	197880489	14117	199289689	14167	200703889
14068	197908624	14118	199317924	14168	200732224
14069	197936761	14119	199346161	14169	200760561
14070	197964900	14120	199374400	14170	200788900
14071	197993041	14121	199402641	14171	200817241
14072	198021184	14122	199430884	14172	200845584
14073	198049329	14123	199459129	14173	200873929
14074	198077476	14124	199487376	14174	200902276
14075	198105625	14125	199515625	14275	200930625
14076	198133776	14126	199543876	14176	200958976
14077	198161929	14127	199572129	14177	200987329
14078	198190084	14128	199600384	14178	201015684
14079	198218241	14129	199628641	14179	201044041
14080	198246400	14130	199656900	14180	201072400
14081	198274561	14131	199685161	14181	201100761
14082	198302724	14132	199713424	14182	201129124
14083	198330889	14133	199741689	14183	201157489
14084	198359056	14134	199769956	14184	201185856
14085	198387225	14135	199798225	14185	201214225
14086	198415396	14136	199826496	14186	201242596
14087	198443569	14137	199854769	14187	201270969
14088	198471744	14138	199883044	14188	201299344
14089	198499921	14139	199911321	14189	201327721
14090	198528100	14140	199939600	14190	201356100
14091	198556281	14141	199967881	14191	201384481
14092	198584464	14142	199996164	14192	201412864
14093	198612649	14143	200024449	14193	201441249
14094	198640836	14144	200052736	14194	201469636
14095	198669025	14145	200081025	14195	201498025
14096	198697216	14146	200109316	14196	201526416
14097	198725409	14147	200137609	14197	201554809
14098	198753604	14148	200165904	14198	201583204
14099	198781801	14149	200194201	14199	201611601
14100	198810000	14150	200222500	14200	201640000

R.	Sq.	R.	Sq.	R.	Sq.
14201	201668401	14251	203091001	14301	204518601
14202	201696804	14252	203119504	14302	204547204
14203	201725209	14253	203148009	14303	204575809
14204	201753616	14254	203176516	14304	204604416
14205	201782025	14255	203205025	14305	204633025
14206	201810436	14256	203233536	14306	204661636
14207	201838849	14257	203262049	14307	204690249
14208	201867264	14258	203290564	14308	204718864
14209	201895681	14259	203319081	14309	204747481
14210	201924100	14260	203347600	14310	204776100
14211	201952521	14261	203376121	14311	204804721
14212	201980944	14262	203404644	14312	204833344
14213	202009369	14263	203433169	14313	204861969
14214	202037796	14264	203461696	14314	204890596
14215	202066225	14265	203490225	14315	204919225
14216	202094656	14266	203518756	14316	204947856
14217	202123089	14267	203547289	14317	204976489
14218	202151524	14268	203575824	14318	205005124
14219	202179961	14269	203604361	14319	205033761
14220	202208400	14270	203632900	14320	205062400
14221	202236841	14271	203661441	14321	205091041
14222	202265284	14272	203689984	14322	205119684
14223	202293729	14273	203718529	14323	205148329
14224	202322176	14274	203747076	14324	205176976
14225	202350625	14275	203775625	14325	205205625
14226	202379076	14276	203804176	14326	205234276
14227	202407259	14277	203832729	14327	205262929
14228	202435984	14278	203861284	14328	205291584
14229	202464441	14279	203889841	14329	205320241
14230	202492900	14280	203918400	14330	205348900
14231	202521361	14281	203946961	14331	205377561
14232	202549824	14282	203975524	14332	205406224
14233	202578289	14283	204004089	14333	205434889
14234	202606756	14284	204032656	14334	205463556
14235	202635225	14285	204061225	14335	205492225
14236	202663696	14286	204089796	14336	205520896
14237	202692169	14287	204118369	14337	205549569
14238	202720644	14288	204146944	14338	205578244
14239	202749121	14289	204175521	14339	205606921
14240	202777600	14290	204204100	14340	205635600
14241	202806081	14291	204232681	14341	205664281
14242	202834564	14292	204261264	14342	205692964
14243	202863049	14293	204289849	14343	205721649
14244	202891536	14294	204318436	14344	205750336
14245	202920025	14295	204347025	14345	205779025
14246	202948516	14296	204375616	14346	205807716
14247	202977009	14297	204404209	14347	205836409
14248	203005504	14298	204432804	14348	205865104
14249	203034001	14299	204461401	14349	205893801
14250	203062500	14300	204490000	14350	205922500

R.	Sq.	R.	Sq.	R.	Sq.
14351	205951201	14401	207388801	14451	208831401
14352	205979904	14402	207417604	14452	208860304
14353	206008609	14403	207446409	14453	208889209
14354	206037316	14404	207475216	14454	208918116
14355	206066025	14405	207504025	14455	208947025
14356	206094736	14406	207532836	14456	208975936
14357	296123449	14407	207561649	14457	209004849
14358	206152164	14408	207590464	14458	209033764
14359	206180881	14409	207619281	14459	209062681
14360	206209600	14410	207648100	14460	209091600
14361	206238321	14411	207676921	14461	209120521
14362	206267044	14412	207705744	14462	209149444
14363	296295769	14413	207734569	14463	209178369
14364	206324946	14414	207763396	14464	209207296
14365	206353225	14415	207792225	14465	209236225
14366	206381956	14416	207821056	14466	209265156
14367	206410689	14417	207849889	14467	209294089
14368	206439424	14418	207878724	14468	209323024
14369	206468161	14419	207907561	14469	209351961
14370	206496900	14420	207936400	14470	209380900
14371	206525641	14421	207965241	14471	209409841
14372	206554384	14422	207994084	14472	209438784
14373	206583129	14423	208022929	14473	209467729
14374	206611876	14424	208051776	14474	209496676
14375	206640625	14425	208080625	14475	209525625
14376	206669376	14426	208109476	14476	209554576
14377	206698129	14427	208138329	14477	209583529
14378	206726884	14428	208167184	14478	209612484
14379	206755641	14429	208196041	14479	209641441
14380	206784400	14430	208224900	14480	209670400
14381	206813161	14431	208253761	14481	209699361
14382	206841924	14432	208282624	14482	209728324
14383	206870689	14433	208311489	14483	209757289
14384	206899456	14434	208340356	14484	209786256
14385	206928225	14435	208369225	14485	209815225
14386	206956996	14436	208398096	14486	209844196
14387	206985769	14437	208426969	14487	209873169
14388	207014544	14438	208455844	14488	209902144
14389	207043321	14439	208484721	14489	209931121
14390	207072100	14440	208513600	14490	209960100
14391	207100881	14441	208542481	14491	209989081
14392	207129664	14442	208571364	14492	210018064
14393	207158449	14443	208600249	14493	210047049
14394	207187236	14444	208629136	14494	210076036
14395	207216025	14445	208658025	14495	210105025
14396	207244816	14446	208686916	14496	210134016
14397	207273609	14447	208715809	14497	210163009
14398	207302404	14448	208744704	14498	210192004
14399	107331201	14449	208773601	14499	210221001
14400	207360000	14450	208802500	14500	210250000

R.	Sq.	R.	Sq.	R.	Sq.
14501	210279001	14551	211731601	14601	213189201
14502	210308004	14552	211760704	14602	213218404
14503	210337009	14553	211789809	14603	213247609
14504	210366016	14554	211818916	14604	213276816
14505	210395025	14555	211848025	14605	213306025
14506	210424036	14556	211877136	14606	213335236
14507	210453049	14557	211906249	14607	213364449
14508	210482064	14558	211935364	14608	213393664
14509	210511081	14559	211964481	14609	213422881
14510	210540100	14560	211993600	14610	213452100
14511	210569121	14561	212022721	14611	213481321
14512	210598144	14562	212051844	14612	213510544
14513	210627169	14563	212080969	14613	213539769
14514	210656196	14564	212110096	14614	213568996
14515	210685225	14565	212139225	14615	213598225
14516	210714256	14566	212168356	14616	213627456
14517	210743289	14567	212197489	14617	213656689
14518	210772324	14568	212226624	14618	213685924
14519	210801361	14569	212255761	14619	213715161
14520	210830400	14570	212284900	14620	213744400
14521	210859441	14571	212314041	14621	213773641
14522	210888484	14572	212343184	14622	213802884
14523	210917529	14573	212372329	14623	213832129
14524	210946576	14574	212401476	14624	213861376
14525	210975625	14575	212430625	14625	213890625
14526	211004676	14576	212459776	14626	213919876
14527	211033729	14577	212488929	14627	213949129
14528	211062784	14578	212518084	14628	213978384
14529	211091841	14579	212547241	14629	214007641
14530	211120900	14580	212576400	14630	214036900
14531	211149961	14581	212605561	14631	214066161
14532	211179024	14582	212634724	14632	214095424
14533	211208089	14583	212663889	14633	214124689
14534	211237156	14584	212693056	14634	214153956
14535	211266225	14585	212722225	14635	214183225
14536	211295296	14586	212751396	14636	214212496
14537	211324369	14587	212780569	14637	214241769
14538	211353444	14588	212809744	14638	214271044
14539	211382521	14589	212838921	14639	214300321
14540	211411600	14590	212868100	14640	214329600
14541	211440681	14591	212897281	14641	214358881
14542	211469764	14592	212926464	14642	214388164
14543	211498849	14593	212955649	14643	214417449
14544	211527936	14594	212984836	14644	214446736
14545	211557025	14595	213014025	14645	214476025
14546	211586116	14596	213043216	14646	214505316
14547	211615209	14597	213072409	14647	214534609
14548	211644304	14598	213101604	14648	214563904
14549	211673401	14599	213130801	14649	214593201
14550	211702500	14600	213160000	14650	214622500

R.	Sq.	R.	Sq.	R.	Sq.
14651	214651801	14701	216119401	14751	217592001
14652	214681104	14702	216148804	14752	217621504
14653	214710409	14703	216178209	14753	217651009
14654	214739716	14704	216207616	14754	217680516
14655	214769025	14705	216237025	14755	217710025
14656	214798336	14706	216266436	14756	217739536
14657	214827649	14707	216295849	14757	217769049
14658	214856964	14708	216325264	14758	217798564
14659	214886281	14709	216354681	14759	217828081
14660	214915600	14710	216384100	14760	217857600
14661	214944921	14711	216413521	14761	217887121
14662	214974244	14712	216442944	14762	217916644
14663	215003569	14713	416472369	14763	217946169
14664	215032896	14714	216501796	14764	217975696
14665	215062225	14715	216531225	14765	218005225
14666	215091556	14716	216560656	14766	218034756
14667	215120889	14717	216590089	14767	218064289
14668	215150224	14718	216619524	14768	218093824
14669	215179561	14719	216648961	14769	218123361
14670	215208900	14720	216678400	14770	218152900
14671	215238241	14721	216707841	14771	218182441
14672	215267584	14722	216737284	14772	218211984
14673	215296929	14723	216766729	14773	218241529
14674	215326276	14724	216796176	14774	218271076
14675	215355625	14725	216825625	14775	218300625
14676	215384976	14726	216855076	14776	218330176
14677	215414329	14727	216884529	14777	218359729
14678	215443684	14728	216913984	14778	218389284
14679	215473041	14729	216943441	14779	218418841
14680	215502400	14730	216972900	14780	218448400
14681	215531761	14731	217002361	14781	218477961
14682	215561124	14732	217031824	14782	218507524
14683	215590489	14733	217061289	14783	218537089
14684	215619856	14734	217090756	14784	218566656
14685	215649225	14735	217120225	14785	218596225
14686	215678596	14736	217149696	14786	218625796
14687	215707969	14737	217179169	14787	218655369
14688	215737344	14738	217208644	14788	218684944
14689	215766721	14739	217238121	14789	218714521
14690	215796100	14740	217267600	14790	218744100
14691	215825481	14741	217297081	14791	218773681
14692	215854864	14742	217326564	14792	218803264
14693	215884249	14743	217356049	14793	218832849
14694	215913636	14744	217385536	14794	218862436
14695	215943025	14745	217415025	14795	218892025
14696	215972416	14746	217444516	14796	218921616
14697	216001809	14747	217474009	14797	218951209
14698	216031204	14748	217503504	14798	218980804
14699	216060601	14749	217533001	14799	219010401
14700	216090000	14750	217562500	14800	219040000

R.	Sq.	R.	Sq.	R.	Sq.
14801	219069601	14851	220552201	14901	222039801
14802	219099204	14852	220581904	14902	222069604
14803	219128809	14853	220611609	14903	222099409
14804	219158416	14854	220641316	14904	222129216
14805	219188025	14855	220671025	14905	222159025
14806	219217636	14856	220700736	14906	222188836
14807	219247249	14857	220730449	14907	222218649
14808	219276864	14858	220760164	14908	222248464
14809	219306481	14859	220789881	14909	222278281
14810	219336100	14860	220819600	14910	222308100
14811	219365721	14861	220849321	14911	222337921
14812	219395344	14862	220879044	14912	222367744
14813	219424969	14863	220908769	14913	222397569
14814	219454596	14864	220938496	14914	222427396
14815	219484225	14865	220968225	14915	222457225
14816	219513856	14866	220997956	14916	222487056
14817	219543489	14867	221027689	14917	222516889
14818	219573124	14868	221057424	14918	222546724
14819	219602761	14869	221087161	14919	222576561
14820	219632400	14870	221116900	14920	222606400
14821	219662041	14871	221146641	14921	222636241
14822	219691684	14872	221176384	14922	222666084
14823	219721329	14873	221206129	14923	222695929
14824	219750976	14874	221235876	14924	222725776
14825	219780625	14875	221265625	14925	222755625
14826	219810276	14876	221295376	14926	222785476
14827	219839929	14877	221325129	14927	222815329
14828	219869584	14878	221354884	14928	222845184
14829	219899241	14879	221384641	14929	222875041
14830	219928900	14880	221414400	14930	222904900
14831	219958561	14881	221444161	14931	222934761
14832	219988224	14882	221473924	14932	222964624
14833	220017889	14883	221503689	14933	222994489
14834	220047556	14884	221533456	14934	223024356
14835	220077225	14885	221563225	14935	223054225
14836	220106896	14886	221592996	14936	223084096
14837	220136569	14887	221622769	14937	223113969
14838	220166244	14888	221652544	14938	223143844
14839	220195921	14889	221682321	14939	223173721
14840	220225600	14890	221712100	14940	223203600
14841	220255281	14891	221741881	14941	223233481
14842	220284964	14892	221771664	14942	223263364
14843	220314649	14893	221801449	14943	223293249
14844	220344336	14894	221831236	14944	223323136
14845	220374025	14895	221861025	14945	223353025
14846	220403716	14896	221890816	14946	223382916
14847	220433409	14897	221920609	14947	223412809
14848	220463104	14898	221950404	14948	223442704
14849	220492801	14899	221980201	14949	223472601
14850	220522500	14900	222010000	14950	223502500

R.	Sq.	R.	Sq.	R.	Sq.
14951	223532401	15001	225030001	15051	226532601
14952	223562304	15002	225060004	15052	226562704
14953	223592209	15003	225090009	15053	226592809
14954	223622116	15004	225120016	15054	226622916
14955	223652025	15005	225150025	15055	226653025
14956	223681936	15006	225180036	15056	226683136
14957	223711849	15007	225210049	15057	226713249
14958	223741764	15008	225240064	15058	226743364
14959	223771681	15009	225270081	15059	226773481
14960	223801600	15010	225300100	15060	226803600
14961	223831521	15011	225330121	15061	226833721
14962	2238614 4	15012	225360144	15062	226863844
14963	223891369	15013	225390169	15063	226893969
14964	223921296	15014	225420196	15064	226924096
14965	223951225	15015	225450225	15065	226954225
14966	223981156	15016	225480256	15066	226984356
14967	224011089	15017	225510289	15067	227014489
14968	224041024	15018	225540324	15068	227044624
14969	224070961	15019	225570361	15069	227074761
14970	224100900	15020	225600400	15070	227104900
14971	224130841	15021	225630441	15071	227135041
14972	224160784	15022	225660484	15072	327165184
14973	224190729	15023	225690529	15073	227195329
14974	224220676	15024	225720576	15074	227225476
14975	224250625	15025	225750625	15075	227255625
14976	224280576	15026	225780676	15076	227285776
14977	224310529	15027	225810729	15077	227315929
14978	224340484	15028	225840784	15078	227346084
14979	224370441	15029	225870841	15079	227376241
14980	224400400	15030	225900900	15080	227406400
14981	224430361	15031	225930961	15081	227436561
14982	224460324	15032	225961024	15082	227466724
14983	224490289	15033	225991089	15083	227496889
14984	224520256	15034	226021156	15084	227527056
14985	224550225	15035	226051225	15085	227557225
14986	224580196	15036	226081296	15086	227587396
14987	224610169	15037	226111369	15087	227617569
14988	224640144	15038	226141444	15088	227647744
14989	224670121	15039	226171521	15089	227677921
14990	224700100	15040	226201600	15090	227708100
14991	224730081	15041	226231681	15091	227738281
14992	224760064	15042	226261764	15092	227768464
14993	224790049	15043	226291849	15093	227798649
14994	224820036	15044	226321936	15094	227828836
14995	224850025	15045	226352025	15095	227859025
14996	224880016	15046	226382116	15096	227889216
14997	224910009	15047	226412209	15097	227919409
14998	224940004	15048	226442304	15098	227949604
14999	224970001	15049	226472401	15099	227979801
15000	225000000	15050	226502500	15100	228010000

R.	Sq.	R.	Sq.	R.	Sq.
15101	228040201	15151	229552801	15201	231070401
15102	228070404	15152	229583104	15202	231100804
15103	228100609	15153	229613409	15203	231131209
15104	228130816	15154	229643716	15204	231161616
15105	228161025	15155	229674025	15205	231192025
15106	228191236	15156	229704336	15206	231222436
15107	228221449	15157	229734649	15207	231252849
15108	228251664	15158	229764964	15208	231283264
15109	228281881	15159	229795281	15209	231313681
15110	228312100	15160	229825600	15210	231344100
15111	228342321	15161	229855921	15211	231374521
15112	228372544	15162	229886244	15212	231404944
15113	228402769	15163	229916569	15213	231435369
15114	228432996	15164	229946896	15214	231465796
15115	228463225	15165	229977225	15215	231496225
15116	228493456	15166	230007556	15216	231526656
15117	228523689	15167	230037889	15217	231557089
15118	228553924	15168	230068224	15218	231587524
15119	228584161	15169	230098561	15219	231617961
15120	228614400	15170	230128900	15220	231648400
15121	228644641	15171	230159241	15221	231678841
15122	228674884	15172	230189584	15222	231709284
15123	228705129	15173	230219929	15223	231739729
15124	228735376	15174	230250276	15224	231770176
15125	238765625	15175	230280625	15225	231800625
15126	228795876	15176	230310976	15226	231831076
15127	228826129	15177	230341329	15227	231861529
15128	228856384	15178	230371684	15228	231891984
15129	228886641	15179	230402041	15229	231922441
15130	228916900	15180	230432400	15230	231952900
15131	228947161	15181	230462761	15231	231983361
15132	228977424	15182	230493124	15232	232013824
15133	229007689	15183	230523489	15233	232044289
15134	229037956	15184	230553856	15234	232074756
15135	229068225	15185	230584225	15235	232105225
15136	229098496	15186	230614596	15236	232135696
15137	229128769	15187	230644969	15237	232166169
15138	229159044	15188	230675344	15238	232196644
15139	229189321	15189	230705721	15239	232227121
15140	229219600	15190	230736100	15240	232257600
15141	229249881	15191	230766481	15241	232288081
15142	229280164	15192	230796864	15242	232318564
15143	229310449	15193	230827249	15243	232349049
15144	229340736	15194	230857636	15244	232379536
15145	229371025	15195	230888025	15245	232410025
15146	229401316	15196	230918416	15246	232440516
15147	229431609	15197	230948809	15247	232471009
15148	229461904	15198	230979204	15248	232501504
15149	229492201	15199	231009601	15249	232532001
15150	229522500	15200	231040000	15250	232562500

15 M. 2 C.		15 M. 3 C.		15 M. 3 C.	
R.	Sq.	R.	Sq.	R.	Sq.
15251	232593001	15301	234120601	15351	235653201
15252	232623504	15302	234151204	15352	235683904
15253	232654009	15303	234181809	15353	235714609
15254	232684516	15304	234212416	15354	235745316
15255	232715025	15305	234243025	15355	235776025
15256	232745536	15306	234273636	15356	235806736
15257	232776049	15307	234304249	15357	235837449
15258	232806564	15308	234334864	15358	235868164
15259	232837081	15309	234365481	15359	235898881
15260	232867600	15310	234396100	15360	235929600
15261	232898121	15311	234426721	15361	235960321
15262	232928644	15312	234457344	15362	235991044
15263	232959169	15313	234487969	15363	236021769
15264	232989696	15314	234518596	15364	236052496
15265	233020225	15315	234549225	15365	236083225
15266	233050756	15316	234579856	15366	236113956
15267	233081289	15317	234610489	15367	236144689
15268	233111824	15318	234641124	15368	236175424
15269	233142361	15319	234671761	15369	236206161
15270	233172900	15320	234702400	15370	236236900
15271	233203441	15321	234733041	15371	236267641
15272	233233984	15322	234763684	15372	236298384
15273	233264529	15323	234794329	15373	236329129
15274	233295076	15324	234824976	15374	236359876
15275	233325625	15325	234855625	15375	236390625
15276	233356176	15326	234886276	15376	236421376
15277	233386729	15327	234916929	15377	236452129
15278	233417284	15328	234947584	15378	236482884
15279	233447841	15329	234978241	15379	236513641
15280	233478400	15330	235008900	15380	236544400
15281	233508961	15331	235039561	15381	236575161
15282	233539524	15332	235070224	15382	236605924
15283	233570089	15333	235100889	15383	236636689
15284	233600656	15334	235131556	15384	236667456
15285	233631225	15335	235162225	15385	236698225
15286	233661796	15336	235192896	15386	236728996
15287	233692369	15337	235223569	15387	236759769
15288	233722944	15338	235254244	15388	236790544
15289	233753521	15339	235284921	15389	236821321
15290	233784100	15340	235315600	15390	236852100
15291	233814681	15341	235346281	15391	236882881
15292	233845264	15342	235376964	15392	236913664
15293	233875849	15343	235407649	15393	236944449
15294	233906436	15344	235438336	15394	236975236
15295	233937025	15345	235469025	15395	237006005
15296	233967616	15346	235499716	15396	237036816
15297	233998209	15347	235530409	15397	237067609
15298	234028804	15348	235561104	15398	237098404
15299	234059401	15349	235591801	15399	237129201
15300	234090000	15350	235622500	15400	237160000

R.	Sq.	R.	Sq.	R.	Sq.
15401	237190801	15451	238733401	15501	240281001
15402	237221604	15452	238764304	15502	240312004
15403	237252409	15453	238795209	15503	240343009
15404	237283216	15454	238826116	15504	240374016
15405	237314025	15455	238857025	15505	240405025
15406	237344836	15456	238887936	15506	240436036
15407	237375649	15457	238918849	15507	240467049
15408	237406464	15458	238949764	15508	240498064
15409	237437281	15459	238980681	15509	240529081
15410	237468100	15460	239011600	15510	240560100
15411	237498921	15461	239042521	15511	240591121
15412	237529744	15462	239073444	15512	240622144
15413	237560569	15463	239104369	15513	240653169
15414	237591396	15464	239135296	15514	240684196
15415	237622225	15465	239166225	15515	240715225
15416	237653056	15466	239197156	15516	240746256
15417	237683889	15467	239228089	15517	240777289
15418	237714724	15468	239259024	15518	240808324
15419	237745561	15469	239289961	15519	240839361
15420	237776400	15470	239320900	15520	240870400
15421	237807241	15471	239351841	15521	240901441
15422	237838084	15472	239382784	15522	240932484
15423	237868929	15473	239413729	15523	240963529
15424	237899776	15474	239444676	15524	240994576
15425	237930625	15475	239475625	15525	241025625
15426	237961476	15476	239506576	15526	241056676
15427	237992329	15477	239537529	15527	241087729
15428	238023184	15478	239568484	15528	241118784
15429	238054041	15479	239599441	15529	241149841
15430	238084900	15480	239630400	15530	241180900
15431	238115761	15481	239661361	15531	241211961
15432	238146624	15482	239692324	15532	241243024
15433	238177489	15483	239723289	15533	241274089
15434	238208356	15484	239754256	15534	241305156
15435	238239225	15485	239785225	15535	241336225
15436	238270096	15486	239816196	15536	241367296
15437	238300969	15487	239847169	15537	241398369
15438	238331844	15488	239878144	15538	241429444
15439	238362721	15489	239909121	15539	241460521
15440	238393600	15490	239940100	15540	241491600
15441	238424481	15491	239971081	15541	241522681
15442	238455364	15492	240002064	15542	241553764
15443	238486249	15493	240033049	15543	241584849
15444	238517136	15494	240064036	15544	241615936
15445	238548025	15495	240095025	15545	241647025
15446	238578916	15496	240126016	15546	241678116
15447	238609809	15497	240157009	15547	241709209
15448	238640704	15498	240188004	15548	241740304
15449	238671601	15499	240219001	15549	241771401
15450	238702500	15500	240250000	15550	241802500

R.	Sq.	R.	Sq.	R.	Sq.
15551	241833601	15601	243391201	15651	244953801
15552	241864704	15602	243422404	15652	244985104
15553	241895809	15603	243453609	15653	245016409
15554	241926916	15604	243484816	15654	245047716
15555	241958025	15605	243516025	15655	245079025
15556	241989136	15606	243547236	15656	245110336
15557	242020249	15607	243578449	15657	245141649
15558	242051364	15608	243609664	15658	245172964
15559	242082481	15609	243640881	15659	245204281
15560	242113600	15610	243672100	15660	245235600
15561	242144721	15611	243703321	15661	245266921
15562	242175844	15612	243734544	15662	245298244
15563	242206969	15613	243765769	15663	245329569
15564	242238096	15614	243796996	15664	245360896
15565	242269225	15615	243828225	15665	245392225
15566	242300356	15616	243859456	15666	245423556
15567	242331489	15617	243890689	15667	245454889
15568	242362624	15618	243921924	15668	245486224
15569	242393761	15619	243953161	15669	245517561
15570	242424900	15620	243984400	15670	245548900
15571	242456041	15621	244015641	15671	245580241
15572	242487184	15622	244046884	15672	245611584
15573	242518329	15623	244078129	15673	245642929
15574	242549476	15624	244109376	15674	245674276
15575	242580625	15625	244140625	15675	245705625
15576	242611776	15626	244171876	15676	245736976
15577	242642929	15627	244203129	15677	245768329
15578	242674084	15628	244234384	15678	245799684
15579	242705241	15629	244265641	15679	245831041
15580	242736400	15630	244296900	15680	245862400
15581	242767561	15631	244328161	15681	245893761
15582	242798724	15632	244359424	15682	245925124
15583	242829889	15633	244390689	15683	245956489
15584	242861056	15634	244421956	15684	245987856
15585	242892225	15635	244453225	15685	246019225
15586	242923396	15636	244484496	15686	246050596
15587	242954569	15637	244515769	15687	246081969
15588	242985744	15638	244547044	15688	246113344
15589	243016921	15639	244578321	15689	246144721
15590	243048100	15640	244609600	15690	246176100
15591	243079281	15641	244640881	15691	246207481
15592	243110464	15642	244672164	15692	246238864
15593	243141649	15643	244703449	15693	246270249
15594	243172836	15644	244734736	15694	246301636
15595	243204025	15645	244766025	15695	246333025
15596	243235216	15646	244797316	15696	246364416
15597	243266409	15647	244828609	15697	246395809
15598	243297604	15648	244859904	15698	246427204
15599	243328801	15649	244891201	15699	246458601
15600	243360000	15650	244922500	16700	246490000

R.	Sq.	R.	Sq.	R.	Sq.
15701	246521401	15751	248094001	15801	249671601
15702	246552804	15752	248125504	15802	249703204
15703	246584209	15753	248157009	15803	249734809
15704	246615616	15754	248188516	15804	249766416
15705	246647025	15755	248220025	15805	249798025
15706	246678436	15756	248251536	15806	249829636
15707	246709849	15757	248283049	15807	249861249
15708	246741264	15758	248314564	15808	249892864
15709	246772681	15759	248346081	15809	249924481
15710	246804100	15760	248377600	15810	249956100
15711	246835521	15761	248409121	15811	249987721
15712	246866944	15762	248440644	15812	250019344
15713	246898369	15763	248472169	15813	250050969
15714	246929796	15764	248503696	15814	250082596
15715	246961225	15765	248535225	15815	250114225
15716	246992656	15766	248566756	15816	250145856
15717	247024089	15767	248598289	15817	250177489
15718	247055524	15768	248629824	15818	250209124
15719	247086961	15769	248661361	15819	250240761
15720	247118400	15770	248692900	15820	250272400
15721	247149841	15771	248724441	15821	250304041
15722	247181284	15772	248755984	15822	250335684
15723	247212729	15773	248787529	15823	250367329
15724	247244176	15774	248819076	15824	250398976
15725	247275625	15775	248850625	15825	250430625
15726	247307076	15776	248882176	15826	250462276
15727	247338529	15777	248913729	15827	250493929
15728	247369984	15778	248945284	15828	250525584
15729	247401441	15779	248976841	15829	250557241
15730	247432900	15780	249008400	15830	250588900
15731	247464361	15781	249039961	15831	250620561
15732	247495824	15782	249071524	15832	250652224
15733	247527289	15783	249103089	15833	250683889
15734	247558756	15784	249134656	15834	250715556
15735	247590225	15785	249166225	15835	250747225
15736	247621696	15786	249197796	15836	250778896
15737	247653169	15787	249229369	15837	250810569
15738	247684644	15788	249260944	15838	250842244
15739	247716121	15789	249292521	15839	250873921
15740	247747600	15790	249324100	15840	250905600
15741	247779081	15791	249355681	15841	250937281
15742	247810564	15792	249387264	15842	250968964
15743	247842049	15793	249418849	15843	251000649
15744	247873536	15794	249450436	15844	251032336
15745	247905025	15795	249482025	15845	251064025
15746	247936516	15796	249513616	15846	251095716
15747	247968009	15797	249545209	15847	251127409
15748	247999504	15798	249576804	15848	251159104
15749	248031001	15799	249608401	15849	251190801
15750	248062500	15800	249640000	15850	251222500

R.	Sq.	R.	Sq.	R.	Sq.
15851	251254201	15901	252841801	15951	254434401
15852	251285904	15902	252873604	15952	254466304
15853	251317609	15903	252905409	15953	254498209
15854	251349316	15904	252937216	15954	254530116
15855	251381025	15905	252969025	15955	254562025
15856	251412736	15906	253000836	15956	254593936
15857	251444449	15907	253032649	15957	254625849
15858	251476164	15908	253064464	15958	254657764
15859	251507881	15909	253096281	15959	254689681
15860	251539600	15910	253128100	15960	254721600
15861	251571321	15911	253159921	15961	254753521
15862	251603044	15912	253191744	15962	254785444
15863	251634769	15913	253223569	15963	254817369
15864	251666496	15914	253255396	15964	254849296
15865	251698225	15915	253287225	15965	254881225
15866	251729956	15916	253319056	15966	254913156
15867	251761689	15917	253350889	15967	254945089
15868	251793424	15918	253382724	15968	254977024
15869	251825161	15919	253414561	15969	255008961
15870	251856900	15920	253446400	15970	255040900
15871	251888641	15921	253478241	15971	255072841
15872	251920384	15922	253510084	15972	255104784
15873	251952129	15923	253541929	15973	255136729
15874	251983876	15924	253573776	15974	255168676
15875	252015625	15925	253605625	15975	255200625
15876	252047376	15926	253637476	15976	255232576
15877	252079129	15927	253669329	15977	255264529
15878	252110884	15928	253701184	15978	255296484
15879	252142641	15929	253733041	15979	255328441
15880	252174400	15930	253764900	15980	255360400
15881	252206161	15931	253796761	15981	255392361
15882	252237924	15932	253828624	15982	255424324
15883	252263689	15933	253860489	15983	255456289
15884	252301456	15934	253892356	15984	255488256
15885	252333225	15935	253924225	15985	255520225
15886	252364996	15936	253956096	15986	255552196
15887	252396769	15937	253987969	15987	255584169
15888	252428544	15938	254019844	15988	255616144
15889	252460321	15939	254051721	15989	255648121
15890	252492100	15940	254083600	15990	255680100
15891	252523881	15941	254115481	15991	255712081
15892	252555664	15942	254147364	15992	255744064
15893	252587449	15943	254179249	15993	255776049
15894	252619236	15944	254211136	15994	255808036
15895	252651025	15945	254243025	15995	255840025
15896	252682816	15946	254274916	15996	255872016
15897	252714609	15947	254306809	15997	255904009
15898	252746404	15948	254338704	15998	255936004
15899	25277820	15949	254370601	15999	255968001
15900	252810000	15950	254402500	16000	256000000

16 M.		16 M.		16 M. 1 C.	
R.	Sq.	R.	Sq.	R.	Sq.
16001	256032001	16051	257634601	16101	259242201
16002	256064004	16052	257666704	16102	259274404
16003	256096009	16053	257698809	16103	259306609
16004	256128016	16054	257730916	16104	259338816
16005	256160025	16055	257763025	16105	259371025
16006	256192036	16056	257795136	16106	259403236
16007	256224049	16057	257827249	16107	259435449
16008	256256064	16058	257859364	16108	259467664
16009	256288081	16059	257891481	16109	259499881
16010	256320100	16060	257923600	16110	259532100
16011	256352121	16061	257955721	16111	259564321
16012	256384144	16062	257987844	16112	259596544
16013	256416169	16063	258019969	16113	259628769
16014	256448196	16064	258052096	16114	259660996
16015	256480225	16065	258084225	16115	259693225
16016	256512256	16066	258116356	16116	259725456
16017	256544289	16067	258148489	16117	259757689
16018	256576324	16068	258180624	16118	259789924
16019	256608361	16069	258212761	16119	259822161
16020	256640400	16070	258244900	16120	259854400
16021	256672441	16071	258277041	16121	259886641
16022	256704484	16072	258309184	16122	259918884
16023	256736529	16073	258341329	16123	259951129
16024	256768576	16074	258373476	16124	259983376
16025	256800625	16075	258405625	16125	260015625
16026	256832676	16076	258437776	16126	260047876
16027	256864729	16077	258469929	16127	260080129
16028	256896784	16078	258502084	16128	260112384
16029	256928841	16079	258534241	16129	260144641
16030	256960900	16080	258566400	16130	260176900
16031	256992961	16081	258598561	16131	260209161
16032	257025024	16082	258630724	16132	260241424
16033	257057089	16083	258662889	16133	260273689
16034	257089156	16084	258695056	16134	260305956
16035	257121225	16085	258727225	16135	260338225
16036	257153296	16086	258759396	16136	260370496
16037	257185369	16087	258791569	16137	260402769
16038	257217444	16088	258823744	16138	260435044
16039	257249521	16089	258855921	16139	260467321
16040	257281600	16090	258888100	16140	260499600
16041	257313681	16091	258920281	16141	260531881
16042	257345764	16092	258952464	16142	260564164
16043	257377849	16093	258984649	16143	260596449
16044	257409936	16094	259016836	16144	260628736
16045	257442025	16095	259049025	16145	260661025
16046	257474116	16096	259081216	16146	260693316
16047	257506209	16097	259113409	16147	260725609
16048	257538304	16098	259145604	16148	260757904
16049	257570401	16099	259177801	16149	260790201
16050	257602500	16100	259210000	16150	260822500

16 M. 1 C.		16 M. 2 C.		16 M. 2 C.	
R.	Sq.	R.	Sq.	R.	Sq.
16151	260854801	16201	262472401	16251	264095001
16152	260887104	16202	262504804	16252	264127504
16153	260919409	16203	262537209	16253	264160009
16154	260951716	16204	262569616	16254	264192516
16155	260984025	16205	262602025	16255	264225025
16156	261016336	16206	262634436	16256	264257536
16157	261048649	16207	262666849	16257	264290049
16158	261080964	16208	262699264	16258	264322564
16159	261113281	16209	262731681	16259	264355081
16160	261145600	16210	262764100	16260	264387600
16161	261177921	16211	262796521	16261	264420121
16162	261210244	16212	262828944	16262	264452644
16163	261242569	16213	262861369	16263	264485169
16164	261274896	16214	262893796	16264	264517696
16165	261307225	16215	262926225	16265	264550225
16166	261339556	16216	262958656	16266	264582756
16167	261371889	16217	262991089	16267	264615289
16168	261404224	16218	263023524	16268	264647824
16169	261436561	16219	263055961	16269	264680361
16170	261468900	16220	263088400	16270	264712900
16171	261501241	16221	263120841	16271	264745441
16172	261533584	16222	263153284	16272	264777984
16173	261565929	16223	263185729	16273	264810529
16174	261598276	16224	263218176	16274	264843076
16175	261630625	16225	263250625	16275	264875625
16176	261662976	16226	263283076	16276	264908176
16177	261695329	16227	263315529	16277	264940729
16178	261727684	16228	263347984	16278	264973284
16179	261760041	16229	263380441	16279	265005841
16180	261792400	16230	263412900	16280	265038400
16181	261824761	16231	263445361	16281	265070961
16182	261857124	16232	263477824	16282	265103524
16183	261889489	16233	263510289	16283	265136089
16184	261921856	16234	263542756	16284	265168656
16185	261954225	16235	263575225	16285	265201225
16186	261986596	16236	263607696	16286	265233796
16187	262018969	16237	263640169	16287	265266369
16188	262051344	16238	263672644	16288	265298944
16189	262083721	16239	263705121	16289	265331521
16190	262116100	16240	263737600	16290	265364100
16191	262148481	16241	263770081	16291	265396681
16192	262180864	16242	263802564	16292	265429264
16193	262213249	16243	263835049	16293	265461849
16194	262245636	16244	263867536	16294	265494436
16195	262278025	16245	263900025	16295	265527025
16196	262310416	16246	263932516	16296	265559616
16197	262342809	16247	263965009	16297	265592209
16198	262375204	16248	263997504	16298	265624804
16199	262407601	16249	264030001	16299	265657401
16200	262440000	16250	264062500	16300	265690000

16 M. 3 C.		16 M. 3 C.		16 M. 4 C.	
R.	Sq.	R.	Sq.	R.	Sq.
16301	265722601	16351	267355201	16401	268992801
16302	265755204	16352	267387904	16402	269025604
16303	265787809	16353	267420609	16403	269058409
16304	265820416	16354	267453316	16404	269091216
16305	265853025	16355	267486025	16405	269124025
16306	265885636	16356	267518736	16406	269156836
16307	265918249	16357	267551449	16407	269189649
16308	265950864	16358	267584164	16408	269222464
16309	265983481	16359	267616881	16409	269255281
16310	266016100	16360	267649600	16410	269288100
16311	266048721	16361	267682321	16411	269320921
16312	266081344	16362	267715044	16412	269353744
16313	266113969	16363	267747769	16413	269386569
16314	266146596	16364	267780496	16414	269419396
16315	266179225	16365	267813225	16415	269452225
16316	266211856	16366	267845956	16416	269485056
16317	266244489	16367	267878689	16417	269517889
16318	266277124	16368	267911424	16418	269550724
16319	266309761	16369	267944161	16419	269583561
16320	266342400	16370	267976900	16420	269616400
16321	266375041	16371	268009641	16421	269649241
16322	266407684	16372	268042384	16422	269682084
16323	266440329	16373	268075129	16423	269714929
16324	266472976	16374	268107876	16424	269747776
16325	266505625	16375	268140625	16425	269780625
16326	266538276	16376	268173376	16426	269813476
16327	266570929	16377	268206129	16427	269846329
16328	266603584	16378	268238884	16428	269879184
16329	266636241	16379	268271641	16429	269912041
16330	266668900	16380	268304400	16430	269944900
16331	266701561	16381	268337161	16431	269977761
16332	266734224	16382	268369924	16432	270010624
16333	266766889	16383	268402689	16433	270043489
16334	266799556	16384	268435456	16434	270076356
16335	266832225	16385	268468225	16435	270109225
16336	266864896	16386	268500996	16436	270142096
16337	266897569	16387	268533769	16437	270174969
16338	266930244	16388	268566544	16438	270207844
16339	266962921	16389	268599321	16439	270240721
16340	266995600	16390	268632100	16440	270273600
16341	267028281	16391	268664881	16441	270306481
16342	267060964	16392	268697664	16442	270339364
16343	267093649	16393	268730449	16443	270372249
16344	267126336	16394	268763236	16444	270405136
16345	267159025	16395	268796025	16445	270438025
16346	267191716	16396	268828816	16446	270470916
16347	267224409	16397	268861609	16447	270503809
16348	267257104	16398	268894404	16448	270536704
16349	267289801	16399	268927201	16449	270569601
16350	267322500	16400	268960000	16450	270602500

16 *M.* 4 *C.*		16 *M.* 5 *C.*		16 *M.* 5 *C.*	
R.	Sq.	R.	Sq.	R.	Sq.
16451	270635401	16501	272283001	16551	273935601
16452	270668304	16502	272316004	16552	273968704
16453	270701209	16503	272349009	16553	274001809
16454	270734116	16504	272382016	16554	274034916
16455	270767025	16505	272415025	16555	274068025
16456	270799936	16506	272448036	16556	274101136
16457	270832849	16507	272481049	16557	274134249
16458	270865764	16508	272514064	16558	274167364
16459	270898681	16509	272547081	16559	274200481
16460	270931600	16510	272580100	16560	274233600
16461	270964521	16511	272613121	16561	274266721
16462	270997444	16512	272646144	16562	274299844
16463	271030369	16513	272679169	16563	274332969
16464	271063296	16514	272712196	16564	274366096
16465	271096225	16515	272745225	16565	274399225
16466	271129156	16516	272778256	16566	274432356
16467	271162089	16517	272811289	16567	274465489
16468	271195024	16518	272844324	16568	274498624
16469	271227961	16519	272877361	16569	274531761
16470	271260900	16520	272910400	16570	274564900
16471	271293841	16521	272943441	16571	274598041
16472	271326784	16522	272976484	16572	274631184
16473	271359729	16523	273099529	16573	274664329
16474	271392676	16524	273042576	16574	274697476
16475	271425625	16525	273075625	16575	274730625
16476	271458576	16526	273108676	16576	274763776
16477	271491529	16527	273141729	16577	274796929
16478	271524484	16528	273174784	16578	274830084
16479	271557441	16529	273207841	16579	274863241
16480	271590400	16530	273240900	16580	274896400
16481	271623361	16531	273273961	16581	274929561
16482	271656324	16532	273307024	16582	274962724
16483	271689289	16533	273340089	16583	274995889
16484	271722256	16534	273373156	16584	275029056
16485	271755225	16535	273406225	16585	275062225
16486	271788196	16536	273439296	16586	275095396
16487	271821169	16537	273472369	16587	275128569
16488	271854144	16538	273505444	16588	275161744
16489	271887121	16539	273538521	16589	275194921
16490	271920100	16540	273571600	16590	275228100
16491	271953081	16541	273604681	16591	275261281
16492	271986064	16542	273637764	16592	275294464
16493	272019049	16543	273670849	16593	275327649
16494	272052036	16544	273703936	16594	275360836
16495	272085025	16545	273737025	16595	275394025
16496	272118016	16546	273770116	16596	275427216
16497	272151009	16547	273803209	16597	275460409
16498	272184004	16548	273836304	16598	275493604
16499	272217001	16549	273869401	16599	275526801
16500	272250000	16550	273902500	16600	275560000

16 M. 6 C.		16 M. 6 C.		16 M. 7 C.	
R.	Sq.	R.	Sq.	R.	Sq.
16601	275593201	16651	277255801	16701	278923401
16602	275626404	16652	277289104	16702	278956804
16603	275659609	16653	277322409	16703	278990209
16604	275692816	16654	277355716	16704	279023616
16605	275726025	16655	277389025	16705	279057025
16606	275759236	16656	277422336	16706	279090436
16607	275792449	16657	277455649	16707	279123849
16608	275825664	16658	277488964	16708	279157264
16609	275858881	16659	277522281	16709	279190681
16610	275892100	16660	277555600	16710	279224100
16611	275925321	16661	277588921	16711	279257521
16612	275958544	16662	277622244	16712	279290944
16613	275991769	16663	277655569	16713	279324369
16614	276024996	16664	277688896	16714	279357796
16615	276058225	16665	277722225	16715	279391225
16616	276091456	16666	277755556	16716	279424656
16617	276124689	16667	277788889	16717	279458089
16618	276157924	16668	277822224	16718	279491524
16619	276191161	16669	277855561	16719	279524961
16620	276224400	16670	277888900	16720	279558400
16621	276257641	16671	277922241	16721	279591841
16622	276290884	16672	277955584	16722	279625284
16623	276324129	16673	277988929	16723	279658729
16624	276357376	16674	278022276	16724	279692176
16625	276390625	16675	278055625	16725	279725625
16626	276423876	16676	278088976	16726	279759076
16627	276457129	16677	278122329	16727	279792529
16628	276490384	16678	278155684	16728	279825984
16629	276523641	16679	278189041	16729	279859441
16630	276556900	16680	278222400	16730	279892900
16631	276590161	16681	278255761	16731	279926361
16632	276623424	16682	278289124	16732	279959824
16633	276656689	16683	278322489	16733	279993289
16634	276689956	16684	278355856	16734	280026756
16635	276723225	16685	278389225	16735	280060225
16636	276756496	16686	278422596	16736	280093696
16637	276789769	16687	278455969	16737	280127169
16638	276823044	16688	278489344	16738	280160644
16639	276856321	16689	278522721	16739	280194121
16640	276889600	16690	278556100	16740	280227600
16641	276922881	16691	278589481	16741	280261081
16642	276956164	16692	278622864	16742	280294564
16643	276989449	16693	278656249	16743	280328049
16644	277022736	16694	278689636	16744	280361536
16645	277056025	16695	278723025	16745	280395025
16646	277089316	16696	278756416	16746	280428516
16647	277122609	16697	278789809	16747	280462009
16648	277155904	16698	278823204	16748	280495504
16649	277189201	16699	278856601	16749	280529001
16650	277222500	16700	278890000	16750	280562500

16 M. 7 C.		16 M. 8 C.		16 M. 8 C.	
R.	Sq.	R.	Sq.	R.	Sq.
16751	280596001	16801	282273601	16851	283956201
16752	280629504	16802	282307204	16852	283989904
16753	280663009	16803	282340809	16853	284023609
16754	280696516	16804	282374416	16854	284057316
16755	280730025	16805	282408025	16855	284091025
16756	280763536	16806	282441636	16856	284124736
16757	280797049	16807	282475249	16857	284158449
16758	280830564	16808	282508864	16858	284192164
16759	280864081	16809	282542481	16859	284225881
16760	280897600	16810	282576100	16860	284259600
16761	280931121	16811	282609721	16861	284293321
16762	280964644	16812	282643344	16862	284327044
16763	280998169	16813	282676969	16863	284360769
16764	281031696	16814	282710596	16864	284394496
16765	281065225	16815	282744225	16865	284428225
16766	281098756	16816	282777856	16866	284461956
16767	281132289	16817	282811489	16867	284495689
16768	281165824	16818	282845124	16868	284529424
16769	281199361	16819	282878761	16869	284563161
16770	281232900	16820	282912400	16870	284596900
16771	281266441	16821	282946041	16871	284630641
16772	281299984	16822	282979684	16872	284664384
16773	281333529	16823	283013329	16873	284698129
16774	281367076	16824	283046976	16874	284731876
16775	281400625	16825	283080625	16875	284765625
16776	281434176	16826	283114276	16876	284799376
16777	281467729	16827	283147929	16877	284833129
16778	281501284	16828	283181584	16878	284866884
16779	281534841	16829	283215241	16879	284900641
16780	281568400	16830	283248900	16880	284934400
16781	281601961	16831	283282561	15881	284968161
16782	281635524	16832	283316224	16882	285001924
16783	281669089	16833	283349889	16883	285035689
16784	281702656	16834	283383556	16884	285069456
16785	281736225	16835	283417225	16885	285103225
16786	281769796	16836	283450896	16886	285136996
16787	281803369	16837	283484569	16887	285170769
16788	281836944	16838	283518244	16888	285204544
16789	281870521	16839	283551921	16889	285238321
16790	281904100	16840	283585600	16890	285272100
16791	281937681	16841	283619281	16891	285305881
16792	281971264	16842	283652964	16892	285339664
16793	282004849	16843	283686649	16893	285373449
16794	282038436	16844	283720336	16894	285407236
16795	282072025	16845	283754025	16895	285441025
16796	282105616	16846	283787716	16896	285474816
16797	282139209	16847	283821409	16897	285508609
16798	282172804	16848	283855104	16898	285542404
16799	282206401	16849	283888801	16899	285576201
16800	282240000	16850	283922500	16900	285610000

16 M. 9 C.		16 M. 9 C.		17 M.	
R.	Sq.	R.	Sq.	R.	Sq.
16901	285643801	16951	287336401	17001	289034001
16902	285677604	16952	287370304	17002	289068004
16903	285711409	16953	287404209	17003	289102009
16904	285745216	16954	287438116	17004	289136016
16905	285779025	16955	287472025	17005	289170025
16906	285812836	16956	287505936	17006	289204036
16907	285846649	16957	287539849	17007	289238049
16908	285880464	16958	287573764	17008	289272064
16909	285914281	16959	287607681	17009	289306081
16910	285948100	16960	287641600	17010	289340100
16911	285981921	16961	287675521	17011	289374121
16912	286015744	16962	287709444	17012	289408144
16913	286049569	16963	287743369	17013	289442169
16914	286083396	16964	287777296	17014	289476196
16915	286117225	16965	287811225	17015	289510225
16116	286151056	16966	287845156	17016	289544256
16917	286184889	16967	287879089	17017	289578289
16918	286218724	16968	287913024	17018	289612324
16919	286252561	16969	287946961	17019	289646361
16920	286286400	16970	287980900	17020	289680400
16921	286320241	16971	288014841	17021	289714441
16922	286354084	16972	288048784	17022	289748484
16923	286387929	16973	288082729	17023	289782529
16924	286421776	16974	288116676	17024	289816576
16925	286455625	16975	288150625	17025	289850625
16926	286489476	16976	288184576	17026	289884676
16927	286523329	16977	288218529	17027	289918729
16928	286557184	16978	288252484	17028	289952784
16929	286591041	16979	288286441	17029	289986841
16930	286624900	16980	288320400	17030	290020900
16931	286658761	16981	288354361	17031	290054961
16932	286692624	16982	288388324	17032	290089024
16933	286726489	16983	288422289	17033	290123089
16934	286760356	16984	288456256	17034	290157156
16935	286794225	16985	288490225	17035	290191225
16936	286828096	16986	288524196	17036	290225296
16937	286861969	16987	288558169	17037	290259369
16938	286895844	16988	288592144	17038	290293444
16939	286929721	16989	288626121	17039	290327521
16940	286963600	16990	288660100	17040	290361600
16941	286997481	16991	288694081	17041	290395681
16942	287031364	16992	288728064	17042	290429764
16943	287065249	16993	288762049	17043	290463849
16944	287099136	16994	288796036	17044	290497936
16945	287133025	16995	288830025	17045	290532025
16946	287166916	16996	288864016	17046	290566116
16947	287200809	16997	288898009	17047	290600209
16948	287234704	16998	288932004	17048	290634304
16949	287268601	16999	288966001	17049	290668401
16950	287302500	17000	289000000	17050	290702500

17 M.		17 M. 1 C.		17 M. 1 C.	
R.	Sq.	R.	Sq.	R.	Sq.
17051	290736601	17101	292444201	17151	294156801
17052	290770704	17102	292478404	17152	294191104
17053	290804809	17103	292512609	17153	294225409
17054	290838916	17104	292546816	17154	294259716
17055	290873025	17105	292581025	17155	294294025
17056	290907136	17106	292615236	17156	294328336
17057	290941249	17107	292649449	17157	294362649
17058	290975364	17108	292683664	17158	294396964
17059	291009481	17109	292717881	17159	294431281
17060	291043600	17110	292752100	17160	294465600
17061	291077721	17111	292786321	17161	294499921
17062	291111844	17112	292820544	17162	294534244
17063	291145969	17113	292854769	17163	294568569
17064	291180096	17114	292888996	17164	294602896
17065	291214225	17115	292923225	17165	294637225
17066	291248356	17116	292957456	17166	294671556
17067	291282489	17117	292991689	17167	294705889
17068	291316624	17118	293025924	17168	294740224
17069	291350761	17119	293060161	17169	294774561
17070	291384900	17120	293094400	17170	294808900
17071	291419041	17121	293128641	17171	294843241
17072	291453184	17122	293162884	17172	294877584
17073	291487329	17123	293197129	17173	294911929
17074	291521476	17124	293231376	17174	294946276
17075	291555625	17125	293265625	17175	294980625
17076	291589776	17126	293299876	17176	295014976
17077	291623929	17127	293334129	17177	295049329
17078	291658084	17128	293368384	17178	295083684
17079	291692241	17129	293402641	17179	295118041
17080	291726400	17130	293436900	17180	295152400
17081	291760561	17131	293471161	17181	295186761
17082	291794724	17132	293505424	17182	295221124
17083	291828889	17133	293539689	17183	295255489
17084	291863056	17134	293573956	17184	295289856
17085	291897225	17135	293608225	17185	295324225
17086	291931396	17136	293642496	17186	295358596
17087	291965569	17137	293676769	17187	295392969
17088	291999744	17138	293711044	17188	295427344
17089	292033921	17139	293745321	17189	295461721
17090	292068100	17140	293779600	17190	295496100
17091	292102281	17141	293813881	17191	295530481
17092	292136464	17142	293848164	17192	295564864
17093	292170649	17143	293882449	17193	295599249
17094	292204836	17144	293916736	17194	295633636
17095	292239025	17145	293951025	17195	295668025
17096	292273216	17146	293985316	17196	295702416
17097	292307409	17147	294019609	17197	295736809
17098	292341604	17148	294053904	17198	295771204
17099	292375801	17149	294088201	17199	295805601
17100	292410000	17150	294122500	17200	295840000

17 M. 2 C.		17 M. 2 C.		17 M. 3 C.	
R.	Sq.	R.	Sq.	R.	Sq.
17201	295874401	17251	297597001	17301	299324601
17202	295908804	17252	297631504	17302	299359204
17203	295943209	17253	297666009	17303	299393809
17204	295977616	17254	297700516	17304	299428416
17205	296012025	17255	297735025	17305	299463025
17206	296046436	17256	297769536	17306	299497636
17207	296080849	17257	297804049	17307	299532249
17208	296115264	17258	297838564	17308	299566864
17209	296149681	17259	297873081	17309	299601481
17210	296184100	17260	297907600	17310	299636100
17211	296218521	17261	297942121	17311	299670721
17212	296252944	17262	297976644	17312	299705344
17213	296287369	17263	298011169	17313	299739969
17214	296321796	17264	298045696	17314	299774596
17215	296356225	17265	298080225	17315	299809225
17216	296390656	17266	298114756	17316	299843856
17217	296425089	17267	298149289	17317	299878489
17218	296459524	17268	298183824	17318	299913124
17219	296493961	17269	298218361	17319	299947761
17220	296528400	17270	298252900	17320	299982400
17221	296562841	17271	298287441	17321	300017041
17222	296597284	17272	298321984	17322	300051684
17223	296631729	17273	298356529	17323	300086329
17224	296666176	17274	298391076	17324	300120976
17225	296700625	17275	298425625	17325	300155625
17226	296735076	17276	298460176	17326	300190276
17227	296769529	17277	298494729	17327	300224929
17228	296803984	17278	298529284	17328	300259584
17229	296838441	17279	298563841	17329	300294241
17230	296872900	17280	298598400	17330	300328900
17231	296907361	17281	298632961	17331	300363561
17232	296941824	17282	298667524	17332	300398224
17233	296976289	17283	298702089	17333	300432889
17234	297010756	17284	298736656	17334	300467556
17235	297045225	17285	298771225	17335	300502225
17236	297079696	17286	298805796	17336	300536896
17237	297114169	17287	298840369	17337	300571569
17238	297148644	17288	298874944	17338	300606244
17239	297183121	17289	298909521	17339	300640921
17240	297217600	17290	298944100	17340	300675600
17241	297252081	17291	298978681	17341	300710281
17242	297286564	17292	299013264	17342	300744964
17243	297321049	17293	299047849	17343	300779649
17244	297355536	17294	299082436	17344	300814336
17245	297390025	17295	299117025	17345	300849025
17246	297424516	17296	299151616	17346	300883716
17247	297459009	17297	299186209	17347	300918409
17248	297493504	17298	299220804	17348	300953104
17249	297528001	17299	299255401	17349	300987801
17250	297562500	17300	299290000	17350	301022500

17 M. 3 C.		17 M. 4 C.		17 M. 4 C.	
R.	Sq.	R.	Sq.	R.	Sq.
17351	301057201	17401	302794 01	17451	304537401
17352	301091904	17402	302829604	17452	304572304
17353	301126609	17403	302864409	17453	304607209
17354	301161316	17404	302899216	17454	304642116
17355	301196025	17405	302934025	17455	304677025
17356	301230736	17406	302968836	17456	304711936
17357	301265449	17407	303003649	17457	304746849
17358	301300164	17408	303038464	17458	304781764
17359	301334881	17409	303073281	17459	304816681
17360	301369600	17410	303108100	17460	304851600
17361	301404321	17411	303142921	17461	304886521
17362	301439044	17412	303177744	17462	304921444
17363	301473769	17413	303212569	17463	304956369
17364	301508496	17414	303247396	17464	304991296
17365	301543225	17415	303282225	17465	305026225
17366	301577956	17416	303317056	17466	305061156
17367	301612689	17417	303351889	17467	305096089
17368	301647424	17418	303386724	17468	305131024
17369	301682161	17419	303421561	17469	305165961
17370	301716900	17420	303456400	17470	305200900
17371	301751641	17421	303491241	17471	305235841
17372	301786384	17422	303526084	17472	305270784
17373	301821129	17423	303560929	17473	305305729
17374	301855876	17424	303595776	17474	305340676
17375	301890625	17425	303630625	17475	305375625
17376	301925376	17426	303665476	17476	305410576
17377	301960129	17427	303700329	17477	305445529
17378	301994884	17428	303735184	17478	305480484
17379	302029641	17429	303770041	17479	305515441
17380	302064400	17430	303804900	17480	305550400
17381	302099161	17431	303839761	17481	305585361
17382	302133924	17432	303874624	17482	305620324
17383	302168689	17433	303909489	17483	305655289
17384	302203456	17434	303944356	17484	305690256
17385	302238225	17435	303979225	17485	305725225
17386	302272996	17436	304014096	17486	305760196
17387	302307769	17437	304048969	17487	305795169
17388	302342544	17438	304083844	17488	305830144
17389	302377321	17439	304118721	17489	305865121
17390	302412100	17440	304153600	17490	305900100
17391	302446881	17441	304188481	17491	305935081
17392	302481664	17442	304223364	17492	305970064
17393	302516449	17443	304258249	17493	306005049
17394	302551236	17444	304293136	17494	306040036
17395	302586025	17445	304328025	17495	306075025
17396	302620816	17446	304362916	17496	306110016
17397	302655609	17447	304397809	17497	306145009
17398	302690404	17448	304432704	17498	306180004
17399	302725201	17449	304467601	17499	306215001
17400	302760000	17450	304502500	17500	306250000

17 M. 5 C.		17 M. 5 C.		17 M. 6 C.	
R.	Sq.	R.	Sq.	R.	Sq.
17501	306285001	17551	308037601	17601	309795201
17502	306320004	17552	308072704	17602	309830404
17503	306355009	17553	308107809	17603	309865609
17504	306390016	17554	308142916	17604	309900816
17505	306425025	17555	308178025	17605	309936025
17506	306460036	17556	308213136	17606	309971236
17507	306495049	17557	308248249	17607	310006449
17508	306530064	17558	308283364	17608	310041664
17509	306565081	17559	308318481	17609	310076881
17510	306600100	17560	308353600	17610	310112100
17511	306635121	17561	308388721	17611	310147321
17512	306670144	17562	308423844	17612	310182544
17513	306705169	17563	308458969	17613	310217769
17514	306740196	17564	308494096	17614	310252996
17515	306775225	17565	308529225	17615	310288225
17516	306810256	17566	308564356	17616	310323456
17517	306845289	17567	308599489	17617	310358689
17518	306880324	17568	308634624	17618	310393924
17519	306915361	17569	308669761	17619	310429161
17520	306950400	17570	308704900	17620	310464400
17521	306985441	17571	308740041	17621	310499641
17522	307020484	17572	308775184	17622	310534884
17523	307055529	17573	308810329	17623	310570129
17524	307090576	17574	308845476	17624	310605376
17525	307125625	17575	308880625	17625	310640625
17526	307160676	17576	308915776	17626	310675876
17527	307195729	17577	308950929	17627	310711129
17528	307230784	17578	308986084	17628	310746384
17529	307265841	17579	309021241	17629	310781641
17530	307300900	17580	309056400	17630	310816900
17531	307335961	17581	309091561	17631	310852161
17532	307371024	17582	309126724	17632	310887424
17533	307406089	17583	309161889	17633	310922689
17534	307441156	17584	309197056	17634	310957956
17535	307476225	17585	309232225	17635	310993225
17536	307511296	17586	309267396	17636	311028496
17537	307546369	17587	309302569	17637	311063769
17538	307581444	17588	309337744	17638	311099044
17539	307616521	17589	309372921	17639	311134321
17540	307651600	17590	309408100	17640	311169600
17541	307686681	17591	309443281	17641	311204881
17542	307721764	17592	309478464	17642	311240164
17543	307756849	17593	309513649	17643	311275449
17544	307791936	17594	309548836	17644	311310736
17545	307827025	17595	309584025	17645	311346025
17546	307862116	17596	309619216	17645	311381316
17547	307897209	17597	309654409	17647	311416609
17548	307932304	17598	309689604	17648	311451904
17549	307967401	17599	309724801	17649	311487201
17550	308002500	17600	309760000	17650	311522500

17 M. 6 C.		17 M. 7 C.		17 M. 7 C.	
R.	Sq.	R.	Sq.	R.	Sq.
17651	311557801	17701	313325401	17751	315098001
17652	311593104	17702	313360804	17752	315133504
17653	311628409	17703	313396209	17753	315169009
17654	311663716	17704	313431616	17754	315204516
17655	311699025	17705	313467025	17755	315240025
17656	311734336	17706	313502436	17756	315275536
17657	311769649	17707	313537849	17757	315311049
17658	311804964	17708	313573264	17758	315346564
17659	311840281	17709	313608681	17759	315382081
17660	311875600	17710	313644100	17760	315417600
17661	311910921	17711	313679521	17761	315453121
17662	311946244	17712	313714944	17762	315488644
17663	311981569	17713	313750369	17763	315524169
17664	312016896	17714	313785796	17764	315559696
17665	312052225	17715	313821225	17765	315595225
17666	312087556	17716	313856656	17766	315630756
17667	312122889	17717	313892089	17767	315666289
17668	312158224	17718	313927524	17768	315701824
17669	312193561	17719	313962961	17769	315737361
17670	312228900	17720	313998400	17770	315772900
17671	312264241	17721	314033841	17771	315808441
17672	312299584	17722	314069284	17772	315843984
17673	312334929	17723	314104729	17773	315879529
17674	312370276	17724	314140176	17774	315915076
17675	312405625	17725	314175625	17775	315950625
17676	312440976	17726	314211076	17776	315986176
17677	312476329	17727	314246529	17777	316021729
17678	312511684	17728	314281984	17778	316057284
17679	312547041	17729	314317441	17779	316092841
17680	312582400	17730	314352900	17780	316128400
17681	312617761	17731	314388361	17781	316163961
17682	312653124	17732	314423824	17782	316199524
17683	312688489	17733	314459289	17783	316235089
17684	312723856	17734	314494756	17784	316270656
17685	312759225	17735	314530225	17785	316306225
17686	312794596	17736	314565696	17786	316341796
17687	312829969	17737	314601169	17787	316377369
17688	312865344	17738	314636644	17788	316412944
17689	312900721	17739	314672121	17789	316448521
17690	312936100	17740	314707600	17790	316484100
17691	312971481	17741	314743081	17791	316519681
17692	313006864	17742	314778564	17792	316555264
17693	313042249	17743	314814049	17793	316590849
17694	313077636	17744	314849536	17794	316626436
17695	313113025	17745	314885025	17795	316662025
17696	313148416	17746	314920516	17796	316697616
17697	313183809	17747	314956009	17797	316733209
17698	313219204	17748	314991504	17798	316768804
17699	313254601	17749	315027001	17799	316804401
17700	313290000	17750	315062500	17800	316840000

17 M. 8 C.		17 M. 8 C.		17 M. 9 C.	
R.	Sq.	R.	Sq.	R.	Sq.
17801	316875601	17851	318658201	17901	320445801
17802	316911204	17852	318693904	17902	320481604
17803	316946809	17853	318729609	17903	320517409
17804	316982416	17854	318765316	17904	320553216
17805	317018025	17855	318801025	17905	320589025
17806	317053636	17856	318836736	17906	320624836
17807	317089249	17857	318872449	17907	320660649
17808	317124864	17858	318908164	17908	320696464
17809	317160481	17859	318943881	17909	320732281
17810	317196100	17860	318979600	17910	320768100
17811	317231721	17861	319015321	17911	320803921
17812	317267344	17862	319051044	17912	320839744
17813	317302969	17863	319086769	17913	320875569
17814	317338596	17864	319122496	17914	320911396
17815	317374225	17865	319158225	17915	320947225
17816	317409856	17866	319193956	17916	320983056
17817	317445489	17867	319229689	17917	321018889
17818	317481124	17868	319265424	17918	321054724
17819	317516761	17869	319301161	17919	321090561
17820	317552400	17870	319336900	17920	321126400
17821	317588041	17871	319372641	17921	321162241
17822	317623684	17872	319408384	17922	321198084
17823	317659329	17873	319444129	17923	321233929
17824	317694976	17874	319479876	17924	321269776
17825	317730625	17875	319515625	17925	321305625
17826	317766276	17876	319551376	17926	321341476
17827	317801929	17877	319587129	17927	321377329
17828	317837584	17878	319622884	17928	321413184
17829	317873241	17879	319658641	17929	321449041
17830	317908900	17880	319694400	17930	321484900
17831	317944561	17881	319730161	17931	321520761
17832	317980224	17882	319765924	17932	321556624
17833	318015889	17883	319801689	17933	321592489
17834	318051556	17884	319837456	17934	321628356
17835	318087225	17885	319873225	17935	321664225
17836	318122896	17886	319908996	17936	321700096
17837	318158569	17887	319944769	17937	321735969
17838	318194244	17888	319980544	17938	321771844
17839	318229921	17889	320016321	17939	321807721
17840	318265600	17890	320052100	17940	321843600
17841	318301281	17891	320087881	17941	321879481
17842	318336964	17892	320123664	17942	321915364
17843	318372649	17893	320159449	17943	321951249
17844	318408336	17894	320195236	17944	321987136
17845	318444025	17895	320231025	17945	322023025
17846	318479716	17896	320266816	17946	322058916
17847	318515409	17897	320302609	17947	322094809
17848	318551104	17898	320338404	17948	322130704
17849	318586801	17899	320374201	17949	322166601
17850	318622500	17900	320410000	17950	322202500

17 M. 9 C.		18 M.		18 M.	
R.	Sq.	R.	Sq.	R.	Sq.
17951	322238401	18001	324036001	18051	325838601
17952	322274304	18002	324072004	18052	325874704
17953	322310209	18003	324108009	18053	325910809
17954	322346116	18004	324144016	18054	325946916
17955	322382025	18005	324180025	18055	325983025
17956	322417936	18006	324216036	18056	326019136
17957	322453849	18007	324252049	18057	326055249
17958	322489764	18008	324288064	18058	326091364
17959	322525681	18009	324324081	18059	326127481
17960	322561600	18010	324360100	18060	326163600
17961	322597521	18011	324396121	18061	326199721
17962	322633444	18012	324432144	18062	326235844
17963	322669369	18013	324468169	18063	326271969
17964	322705296	18014	324504196	18064	326308096
17965	322741225	18015	324540225	18065	326344225
17966	322777156	18016	324576256	18066	326380356
17967	322813089	18017	324612289	18067	326416489
17968	322849024	18018	324648324	18068	326452624
17969	322884961	18019	324684361	18069	325488761
17970	322920900	18020	324720400	18070	326524900
17971	322956841	18021	324756441	18071	326561041
17972	322992784	18022	324792484	18072	326597184
17973	323028729	18023	324828529	18073	326633329
17974	323064676	18024	324864576	18074	326669476
17975	323100625	18025	324900625	18075	326705625
17976	323136576	18026	324936676	18076	326741776
17977	323172529	18027	324972729	18077	326777929
17978	323208484	18028	325008784	18078	326814084
17979	323244441	18029	325044841	18079	326850241
17980	323280400	18030	325080900	18080	326886400
17981	323316361	18031	325116961	18081	326922561
17982	323352324	18032	325153024	18082	326958724
17983	323388289	18033	325189089	18083	326994889
17984	323424256	18034	325225156	18084	327031056
17985	323460225	18035	325261225	18085	327067225
17986	323496196	18036	325297296	18086	327103396
17987	323532169	18037	325333369	18087	327139569
17988	323568144	18038	325369444	18088	327175744
17989	323604121	18039	325405521	18089	327211921
17990	323640100	18040	325441600	18090	327248100
17991	323676081	18041	325477681	18091	327284281
17992	323712064	18042	325513764	18092	327320464
17993	323748049	18043	325549849	18093	327356649
17994	323784036	18044	325585936	18094	327392836
17995	323820025	18045	325622025	18095	327429025
17996	323856016	18046	325658116	18095	327465216
17997	323892009	18047	325694209	18097	327501409
17998	323928004	18048	325730304	18098	327537604
17999	323964001	18049	325766401	18099	327573801
18000	324000000	18050	325802500	18100	327610000

18 M. 1 C.		18 M. 1 C.		18 M. 2 C.	
R.	Sq.	R.	Sq.	R.	Sq.
18101	327646201	18151	329458801	18201	331276401
18102	327682404	18152	329495104	18202	331312804
18103	327718609	18153	329531409	18203	331349209
18104	327754816	18154	329567716	18204	331385616
18105	327791025	18155	329604025	18205	331422025
18106	327827236	18156	329640336	18206	331458436
18107	327863449	18157	329676649	18207	331494849
18108	327899664	18158	329712964	18208	331531264
18109	327935881	18159	329749281	18209	331567681
18110	327972100	18160	329785600	18210	331604100
18111	328008321	18161	329821921	18211	331640521
18112	328044544	18162	329858244	18212	331676944
18113	328080769	18163	329894569	18213	331713369
18114	328116996	18164	329930896	18214	331749796
18115	328153225	18165	329967225	18215	331786225
18116	328189456	18166	330003556	18216	331822656
18117	328225689	18167	330039889	18217	331859089
18118	328261924	18168	330076224	18218	331895524
18119	328298161	18169	330112561	18219	331931961
18120	328334400	18170	330148900	18220	331968400
18121	328370641	18171	330185241	18221	332004841
18122	328406884	18172	330221584	18222	332041284
18123	328443129	18173	330257929	18223	332077729
18124	328479376	18174	330294276	18224	332114176
18125	328515625	18175	330330625	18225	332150625
18126	328551876	18176	330366976	18226	332187076
18127	328588129	18177	330403329	18227	332223529
18128	328624384	18178	330439684	18228	332259984
18129	328660641	18179	330476041	18229	332296441
18130	328696900	18180	330512400	18230	332332900
18131	328733161	18181	330548761	18231	332369361
18132	328769424	18182	330585124	18232	332405824
18133	328805689	18183	330621489	18233	332442289
18134	328841956	18184	330657856	18234	332478756
18135	328878225	18185	330694225	18235	332515225
18136	328914496	18186	330730596	18236	332551696
18137	328950769	18187	330766969	18237	332588169
18138	328987044	18188	330803344	18238	332624644
18139	329023321	18189	330839721	18239	332661121
18140	329059600	18190	330876100	18240	332697600
18141	329095881	18191	330912481	18241	332734081
18142	329132164	18192	330948864	18242	332770564
18143	329168449	18193	330985249	18243	332807049
18144	329204736	18194	331021636	18244	332843536
18145	329241025	18195	331058825	18245	332880025
18146	329277316	18196	331094416	18246	332916516
18147	329313609	18197	331130809	18247	332953009
18148	329349904	18198	331167204	18248	332989504
18149	329386201	18199	331203601	18249	333026001
18150	329422500	18200	331240000	18250	333062500

18 M. 2 C.		18 M. 3 C.		18 M. 3 C.	
R.	Sq.	R.	Sq.	R.	Sq.
18251	333099001	18301	334926601	18351	336759201
18252	333135504	18302	334963204	18352	336795904
18253	333172009	18303	334999809	18353	336832609
18254	333208516	18304	335036416	18354	336869316
18255	333245025	18305	335073025	18355	336906025
18256	333281536	18306	335109636	18356	336942736
18257	333318049	18307	335146249	18357	336979449
18258	333354564	18308	335182864	18358	337016164
18259	333391081	18309	335219481	18359	337052881
18260	333427600	18310	335256100	18360	337089600
18261	333464121	18311	335292721	18361	337126321
18262	333500644	18312	335329344	18362	337163044
18263	333537169	18313	335365969	18363	337199769
18264	333573696	18314	335402596	18364	337236496
18265	333610225	18315	335439225	18365	337273225
18266	333646756	18316	335475856	18366	337309956
18267	333683289	18317	335512489	18367	337346689
18268	333719824	18318	335549124	18368	337383424
18269	333756361	18319	335585761	18369	337420161
18270	333792900	18320	335622400	18370	337456900
18271	333829441	18321	335659041	18371	337493641
18272	333865984	18322	335695684	18372	337530384
18273	333902529	18323	335732329	18373	337567129
18274	333939076	18324	335768976	18374	337603876
18275	333975625	18325	335805625	18375	337640625
18276	334012176	18326	335842276	18376	337677376
18277	334048729	18327	335878929	18377	337714129
18278	334085284	18328	335915584	18378	337750884
18279	334121841	18329	335952241	18379	337787641
18280	334158400	18330	335988900	18380	337824400
18281	334194961	18331	336025561	18381	337861161
18282	334231524	18332	336062224	18382	337897924
18283	334268089	18333	336098889	18383	337934689
18284	334304656	18334	336135556	18384	337971456
18285	334341225	18335	336172225	18385	338008225
18286	334377796	18336	336208896	18386	338044996
18287	334414369	18337	336245569	18387	338081769
18288	334450944	18338	336282244	18388	338118544
18289	334487521	18339	336318921	18389	338155321
18290	334524100	18340	336355600	18390	338192100
18291	334560681	18341	336392281	18391	338228881
18292	334597264	18342	336428964	18392	338265664
18293	334633849	18343	336465649	18393	338302449
18294	334670436	18344	336502336	18394	338339236
18295	334707025	18345	336539025	18395	338376025
18296	334743616	18346	336575716	18396	338412816
18297	334780209	18347	336612409	18397	338449609
18298	334816804	18348	336649104	18398	338486404
18299	334853401	18349	336685801	18399	338523201
18300	334890000	18350	336722500	18400	338560000

18 M. 4 C.		18 M. 4 C.		18 M. 5 C.	
R.	Sq.	R.	Sq.	R.	Sq.
18401	338596801	18451	340439401	18501	342287001
18402	338633604	18452	340476304	18502	342324004
18403	338670409	18453	340513209	18503	342361009
18404	338707216	18454	340550116	18504	342398016
18405	338744025	18455	340587025	18505	342435025
18406	338780836	18456	340623936	18506	342472036
18407	338817649	18457	340660849	18507	342509049
18408	338854464	18458	340697764	18508	342546064
18409	338891281	18459	340734681	18509	342583081
18410	338928100	18460	340771600	18510	342620100
18411	338964921	18461	340808521	18511	342657121
18412	339001744	18462	340845444	18512	342694144
18413	339038569	18463	340882369	18513	342731169
18414	339075396	18464	340919296	18514	342768196
18415	339112225	18465	340956225	18515	342805225
18416	339149056	18466	340993156	18516	342842256
18417	339185889	18467	341030089	18517	342879289
18418	339222724	18468	341067024	18518	342916324
18419	339259561	18469	341103961	18519	342953361
18420	339296400	18470	341140900	18520	342990400
18421	339333241	18471	341177841	18521	343027441
18422	339370084	18472	341214784	18522	343064484
18423	339406929	18473	341251729	18523	343101529
18424	339443776	18474	341288676	18524	343138576
18425	339480625	18475	341325625	18525	343175625
18426	339517476	18476	341362576	18526	343212676
18427	339554329	18477	341399529	18527	343249729
18428	339591184	18478	341436484	18528	343286784
18429	339628041	18479	341473441	18529	343323841
18430	339664900	18480	341510400	18530	343360900
18431	339701761	18481	341547361	18531	343397961
18432	339738624	18482	341584324	18532	343435024
18433	339775489	18483	341621289	18533	343472089
18434	339812356	18484	341658256	18534	343509156
18435	339849225	18485	341695225	18535	343546225
18436	339886096	18486	341732196	18536	343583296
18437	339922969	18487	341769169	18537	343620369
18438	339959844	18488	341806144	18538	343657444
18439	339996721	18489	341843121	18539	343694521
18440	340033600	18490	341880100	18540	343731600
18441	340070481	18491	341917081	18541	343768681
18442	340107364	18492	341954064	18542	343805764
18443	340144249	18493	341991049	18543	343842849
18444	340181136	18494	342028036	18544	343879936
18445	340218025	18495	342065025	18545	343917025
18446	340254916	18496	342102016	18546	343954116
18447	340291809	18497	342139009	18547	343991209
18448	340328704	18498	342176004	18548	344028304
18449	340365601	18499	342213001	18549	344065401
18450	340402500	18500	342250000	18550	344102500

18 M. 5 C.		18 M. 6 C.		18 M. 6 C.	
R.	Sq.	R.	Sq.	R.	Sq.
18551	344139601	18601	345997201	18651	347859801
18552	344176704	18602	346034404	18652	347897104
18553	344213809	18603	346071609	18653	347934409
18554	344250916	18604	346108816	18654	347971716
18555	344288025	18605	346146025	18655	348009025
18556	344325136	18006	346183236	18656	348046336
18557	344362249	18607	346220449	18657	348083649
18558	344399364	18608	346257664	18658	348120964
18559	344436481	18609	346294881	18659	348158281
18560	344473600	18610	346332100	18660	348195600
18561	344510721	18611	346369321	18661	348232921
18562	344547844	18612	346406544	18662	348270244
18563	344584969	18613	346443769	18663	348307569
18564	344622096	18614	346480996	18664	348344896
18565	344659225	18615	346518225	18665	348382225
18566	344696356	18616	346555456	18666	348419556
18567	344733489	18617	346592689	18667	348456889
18568	344770624	18618	346629924	18668	348494224
18569	344807761	18619	346667161	18669	348531561
18570	344844900	18620	346704400	18670	348568900
18571	344882041	18621	346741641	18671	348606241
18572	344919184	18622	346778884	18672	348643584
18573	344956329	18623	346816129	18673	348680929
18574	344993476	18624	346853376	18674	348718276
18575	345030625	18625	346890625	18675	348755625
18576	345067776	18626	346927876	18676	348792976
18577	345104929	18627	346965129	18677	348830329
18578	345142084	18628	347002384	18678	348867684
18579	345179241	18629	347039641	18679	348905041
18580	345216400	18630	347076900	18680	348942400
18581	345253561	18631	347114161	18681	348979761
18582	345290724	18632	347151424	18682	349017124
18583	345327889	18633	347188689	18683	349054489
18584	345365056	18634	347225956	18684	349091856
18585	345402225	18635	347263225	18685	349129225
18586	345439396	18636	347300496	18686	349166596
18587	345476569	18637	347337769	18687	349203969
18588	345513744	18638	347375044	18688	349241344
18589	345550921	18639	347412321	18689	349278721
18590	345588100	18640	347449600	18690	349316100
18591	345625281	18641	347486881	18691	349353481
18592	345662464	18642	347524164	18692	349390864
18593	345699649	18643	347561449	18693	349428249
18594	345736836	18644	347598736	18694	349465636
18595	345774025	18645	347636025	18695	349503025
18595	345811216	18646	347673316	18696	349540416
18597	345848409	18647	347710609	18697	349577809
18598	345885604	18648	347747904	18698	349615204
18599	345922801	18649	347785201	18699	349652601
18600	345960000	18650	347822500	18700	349690000

18 M. 7 C.		18 M. 7 C.		18 M. 8 C.	
R	Sq.	R.	Sq.	R.	Sq.
18701	349727401	18751	351600001	18801	353477601
18702	349764804	18752	351637504	18802	353515204
18703	349802209	18753	351675009	18803	353552809
18704	349839616	18754	351712516	18804	353590416
18705	349877025	18755	351750025	18805	353628025
18706	349914436	18756	351787536	18806	353665636
18707	349951849	18757	351825049	18807	353703249
18708	349989264	18758	351862564	18808	353740864
18709	350026681	18759	351900081	18809	353778481
18710	350064100	18760	351937600	18810	353816100
18711	350101521	18761	351975121	18811	353853721
18712	350138944	18762	352012644	18812	353891344
18713	350176369	18763	352050169	18813	353928969
18714	350213796	18764	352087696	18814	353966596
18715	350251225	18765	352125225	18815	354004225
18716	350288656	18766	352162756	18816	354041856
18717	350326089	18767	352200289	18817	354079489
18718	350363524	18768	352237824	18818	354117124
18719	350400961	18769	352275361	18819	354154761
18720	350438400	18770	352312900	18820	354192400
18721	350475841	18771	352350441	18821	354230041
18722	350513284	18772	352387984	18822	354267684
18723	350550729	18773	352425529	18823	354305329
18724	350588176	18774	352463076	18824	354342976
18725	350625625	18775	352500625	18825	354380625
18726	350663076	18776	352538176	18826	354418276
18727	350700529	18777	352575729	18827	354455929
18728	350737984	18778	352613284	18828	354493584
18729	350775441	18779	352650841	18829	354531241
18730	350812900	18780	352688400	18830	354568900
18731	350850361	18781	352725961	18831	354606561
18732	350887824	18782	352763524	18832	354644224
18733	350925289	18783	352801089	18833	354681889
18734	350962756	18784	352838656	18834	354719556
18735	351000225	18785	352876225	18835	354757225
18736	351037696	18786	352913796	18836	354794896
18737	351075169	18787	352951369	18837	354832569
18738	351112644	18788	352988944	18838	354870244
18739	351160121	18789	353026521	18839	354907921
18740	351187600	18790	353064100	18840	354945600
18741	351225081	18791	353101681	18841	354983281
18742	351262564	18792	353139264	18842	355020964
18743	351300049	18793	353176849	18843	355058649
18744	351337536	18794	353214436	18844	355096336
18745	351375025	18795	353252025	18845	355134025
18746	351412516	18796	353289616	18846	355171716
18747	351450009	18797	353327209	18847	355209409
18748	351487504	18798	353364804	18848	355247104
18749	351525001	18799	353402401	18849	355284801
18750	351562500	18800	353440000	18850	355322500

18 M. 8 C.		18 M. 9 C.		18 M. 9 C.	
R.	Sq.	R.	Sq.	R.	Sq.
18851	355360201	18901	357247801	18951	359140401
18852	355397904	18902	357285604	18952	359178304
18853	355435609	18903	357323409	18953	359216209
18854	355473316	18904	357361216	18954	359254116
18855	355511025	18905	357399025	18955	359292025
18856	355548736	18906	357436836	18956	359329936
18857	355586449	18907	357474649	18957	359367849
18858	355624164	18908	357512464	18958	359405764
18859	355661881	18909	357550281	18959	359443681
18860	355699600	18910	357588100	18960	359481600
18861	355737321	18911	357625921	18961	359519521
18862	355775044	18912	357663744	18962	359557444
18863	355812769	18913	357701569	18963	359595369
18864	355850496	18914	357739396	18964	359633296
18865	355888225	18915	357777225	18965	359671225
18866	355925956	18916	357815056	18966	359709156
18867	355963689	18917	357852889	18967	359747089
18868	356001424	18918	357890724	18968	359785024
18869	356039161	18919	357928561	18969	359822961
18870	356076900	18920	357966400	18970	359860900
18871	356114641	18921	358004241	18971	359898841
18872	356152384	18922	358042084	18972	359936784
18873	356190129	18923	358079929	18973	359974729
18874	356227876	18924	358117776	18974	360012676
18875	356265625	18925	358155625	18975	360050625
18876	356303376	18926	358193476	18976	360088576
18877	356341129	18927	358231329	18977	360126529
18878	356378884	18928	358269184	18978	360164484
18879	356416641	18929	358307041	18979	360202441
18880	356454400	18930	358344900	18980	360240400
18881	356492161	18931	358382761	18981	360278361
18882	356529924	18932	358420624	18982	360316324
18883	356567689	18933	358458489	18983	360354289
18884	356605456	18934	358496356	18984	360392256
18885	356643225	18935	358534225	18985	360430225
18886	356680956	18936	358572096	18986	360468196
18887	356718769	18937	358609969	18987	360506169
18888	356756544	18938	358647844	18988	360544144
18889	356794321	18939	358685721	18989	360582121
18890	356832100	18940	358723600	18990	360620100
18891	356869881	18941	358761481	18991	360658081
18892	356907664	18942	358799364	18992	360696064
18893	356945449	18943	358837249	18993	360734049
18894	356983236	18944	358875136	18994	360772036
18895	357021025	18945	358913025	18995	360810025
18896	357058816	18946	358950916	18996	360848016
18897	357096609	18947	358988809	18997	360886009
18898	357134404	18948	359026704	18998	360924004
18899	357172201	18949	359064601	18999	360962001
18900	357210000	18950	359102500	19000	361000000

19 M.		19 M.		19 M. 1 C.	
R.	Sq.	R.	Sq.	R.	Sq.
19001	361038001	19051	362940601	19101	364848201
19002	361076004	19052	362978704	19102	364886404
19003	361114009	19053	363016809	19103	364924609
19004	361152016	19054	363054916	19104	364962816
19005	361190025	19055	363093025	19105	365001025
19006	361228036	19056	363131136	19106	365039236
19007	361266049	19057	363169249	19107	365077449
19008	361304064	19058	363207364	19108	365115664
19009	361342081	19059	363245481	19109	365153881
19010	361380100	19060	263283600	19110	365192100
19011	361418121	19061	363321721	19111	365230321
19012	361456144	19062	363359844	19112	365268544
19013	361494169	19063	363397969	19113	365306769
19014	361532196	19064	363436096	19114	365344996
19015	361570225	19065	363474225	19115	365383225
19016	361608256	19066	363512356	19116	365421456
19017	361646289	19067	363550489	19117	365459689
19018	361684324	19068	363588624	19118	365497924
19019	361722361	19069	363626761	19119	365536161
19020	361760400	19070	363664900	19120	365574400
19021	361798441	19071	363703041	19121	365612641
19022	361836484	19072	363741184	19122	365650884
19023	361874529	19073	363779329	19123	365689129
19024	361912576	19074	363817476	19124	365727376
19025	361950625	19075	363855625	19125	365765625
19026	361988676	19076	363893776	19126	365803876
19027	362026729	19077	363931929	19127	365842129
19028	362064784	19078	363970084	19128	365880384
19029	362102841	19079	364008241	19129	365918641
19030	362140900	19080	364046400	19130	365956900
19031	362178961	19081	364084561	19131	365995161
19032	362217024	19082	364122724	19132	366033424
19033	362255089	19083	364160889	19133	366071689
19034	362293156	19084	364199056	19134	366109956
19035	362331225	19085	364237225	19135	366148225
19036	362369296	19086	364275396	19136	366186496
19037	362407369	19087	364313569	19137	366224769
19038	362445444	19088	364351744	19138	366263044
19039	362483521	19089	364389921	19139	366301321
19040	362521600	19090	364428100	19140	366339600
19041	362559681	19091	364466281	19141	366377881
19042	362597764	19092	364504464	19142	366416164
19043	362635849	19093	364542649	19143	366454449
19044	362673936	19094	364580836	19144	366492736
19045	362712025	19095	364619025	19145	366531025
19046	362750116	19096	364657216	19146	366569316
19047	362788209	19097	364695409	19147	366607609
19048	362826304	19098	364733604	19148	366645904
19049	362864401	19099	364771801	19149	366684201
19050	362902500	19100	364810000	19150	366722500

19 *M.* 1 *C.*		19 *M.* 2 *C.*		19 *M.* 2 *C.*	
R.	Sq.	R.	Sq.	R.	Sq.
19151	366760801	19201	368678401	19251	370601001
19152	366799104	19202	368716804	19252	370639504
19153	366837409	19203	368755209	19253	370678009
19154	366875716	19204	368793616	19254	370716516
19155	366914025	19205	368832025	19255	370755025
19156	366952336	19206	368870436	19256	370793536
19157	366990649	19207	368908849	19257	370832049
19158	367028964	19208	368947264	19258	370870564
19159	367067281	19209	368985681	19259	370909081
19160	367105600	19210	369024100	19260	370947600
19161	367143921	19211	369062521	19261	370986121
19162	367182244	19212	369100944	19262	371024644
19163	367220569	19213	369139369	19263	371063169
19164	367258896	19214	369177796	19264	371101696
19165	367297225	19215	369216225	19265	371140225
19166	367335556	19216	369254656	19266	371178756
19167	367373889	19217	369293089	19267	371217289
19168	367412224	19218	369331524	19268	371255824
19169	367450561	19219	369369961	19269	371294361
19170	367488900	19220	369408400	19270	371332900
19171	367527241	19221	369446841	19271	371371441
19172	367565584	19222	369485284	19272	371409984
19173	367603929	19223	369523729	19273	371448529
19174	367642276	19224	369562176	19274	371487076
19175	367680625	19225	369600625	19275	371525625
19176	367718976	19226	369639076	19276	371564176
19177	367757329	19227	369677529	19277	371602729
19178	367795684	19228	369715984	19278	371641284
19179	367834041	19229	369754441	19279	371679841
19180	367872400	19230	369792900	19280	371718400
19181	367910761	19231	369831361	19281	371756961
19182	367949124	19232	369869824	19282	371795524
19183	367987489	19233	369908289	19283	371834089
19184	368025856	19234	369946756	19284	371872656
19185	368064225	19235	369985225	19285	371911225
19186	368102596	19236	370023696	19286	371949796
19187	368140969	19237	370062169	19287	371988369
19188	368179344	19238	370100644	19288	372026944
19189	368217721	19239	370139121	19289	372065521
19190	368256100	19240	370177600	19290	372104100
19191	368294481	19241	370216081	19291	372142681
19192	368332864	19242	370254564	19292	372181264
19193	368371249	19243	370293049	19293	372219849
19194	368409636	19244	370331536	19294	372258436
19195	368448025	19245	370370025	19295	372297025
19196	368486416	19246	370408516	19296	372335616
19197	368524809	19247	370447009	19297	372374209
19198	368563204	19248	370485504	19298	372412804
19199	368601601	19249	370524001	19299	372451401
19200	368640000	19250	370562500	19300	372490000

19 M. 3 C.		19 M. 3 C.		19 M. 4 C.	
R.	Sq.	R.	Sq.	R.	Sq.
19301	372528601	19351	374461201	19401	376398801
19302	372567204	19352	374499904	19402	376437604
19303	372605809	19353	374538609	19403	376476409
19304	372644416	19354	374577316	19404	376515216
19305	372683025	19355	374616025	19405	376554025
19306	372721636	19356	374654736	19406	376592836
19307	372760249	19357	374693449	19407	376631649
19308	372798864	19358	374732164	19408	376670464
19309	372837481	19359	374770881	19409	376709281
19310	372876100	19360	374809600	19410	376748100
19311	372914721	19361	374848321	19411	376786921
19312	372953344	19362	374887044	19412	376825744
19313	372991969	19363	374925769	19413	376864569
19314	373030596	19364	374964496	19414	376903396
19315	373069225	19365	375003225	19415	376942225
19316	373107856	19366	375041956	19416	376981056
19317	373146489	19367	375080689	19417	377019889
19318	373185124	19368	375119424	19418	377058724
19319	373223761	19369	375158161	19419	377097561
19320	373262400	19370	375196900	19420	377136400
19321	373301041	19371	375235641	19421	377175241
19322	373339684	19372	375274384	19422	377214084
19323	373378329	19373	375313129	19423	377252929
19324	373416976	19374	375351876	19424	377291776
19325	373455625	19375	375390625	19425	377330625
19326	373494276	19376	375429376	19426	377369476
19327	373532929	19377	375468129	19427	377408329
19328	373571584	19378	375506884	19428	377447184
19329	373610241	19379	375545641	19429	377486041
19330	373648900	19380	375584400	19430	377524900
19331	373687561	19381	375623161	19431	377563761
19332	373726224	19382	375661924	19432	377602624
19333	373764889	19383	375700689	19433	377641489
19334	373803556	19384	375739456	19434	377680356
19335	37 842225	19385	375778225	19435	377719225
19336	373880896	19386	375816996	19436	377758096
19337	373919569	19387	375855769	19437	377796969
19338	373958244	19388	375894544	19438	377835844
19339	373996921	19389	375933321	19439	377874721
19340	374035600	19390	375972100	19440	377913600
19341	374074281	19391	376010881	19441	377952481
19342	374112964	19392	376049664	19442	377991364
19343	374151649	19393	376088449	19443	378030249
19344	374190336	19394	376127236	19444	378069136
19345	374229025	19395	376166025	19445	378108025
19346	374267716	19396	376204816	19446	378146916
19347	374306409	19397	376243609	19447	378185809
19348	374345104	19398	376282404	19448	378224704
19349	374383801	19399	376321201	19449	378263601
19350	374422500	19400	376360000	19450	378302500

19 M. 4 C.		19 M. 5 C.		19 M. 5 C.	
R.	Sq.	R.	Sq.	R.	Sq.
19451	378341401	19501	380289001	19551	382241601
19452	378380304	19502	380328004	19552	382280704
19453	378419209	19503	380367009	19553	382319809
19454	378458116	19504	380406016	19554	382358916
19455	378497025	19505	380445025	19555	382398025
19456	378535936	19506	380484036	19556	382437136
19457	378574849	19507	380523049	19557	382476249
19458	378613764	19508	380562064	19558	382515364
19459	378652681	19509	380601081	19559	382554481
19460	378691600	19510	380640100	19560	382593600
19461	378730521	19511	380679121	19561	382632721
19462	378769444	19512	380718144	19562	382671844
19463	378808369	19513	380757169	19563	382710969
19464	378847296	19514	380796196	19564	382750096
19465	378886225	19515	380835225	19565	382789225
19466	378925156	19516	380874256	19566	382828356
19467	378964089	19517	380913289	19567	382867489
19468	379003024	19518	380952324	19568	382906624
19469	379041961	19519	380991361	19569	382945761
19470	379080900	19520	381030400	19570	382984900
19471	379119841	19521	381069441	19571	383024041
19472	379158784	19522	381108484	19572	383063184
19473	379197729	19523	381147529	19573	383102329
19474	379236676	19524	381186576	19574	383141476
19475	379275625	19525	381225625	19575	383180625
19476	379314576	19526	381264676	19576	383219776
19477	379353529	19527	381303729	19577	383258929
19478	379392484	19528	381342784	19578	383298084
19479	379431441	19529	381384841	19579	383337241
19480	379470400	19530	381420900	19580	383376400
19481	379509361	19531	381459961	19581	383415561
19482	379548324	19532	381499024	19582	383454724
19483	379587289	19533	381538089	19583	383493889
19484	379626256	19534	381577156	19584	383533056
19485	379665225	19535	381616225	19585	383572225
19486	379704196	19536	381655296	19586	383611396
19487	379743169	19537	381694369	19587	383650569
19488	379782144	19538	381733444	19588	383689744
19489	379821121	19539	381772521	19589	383728921
19490	379860100	19540	381811600	19590	383768100
19491	379899081	19541	381850681	19591	383807281
19492	379938064	19542	381889764	19592	383846464
19493	379977049	19543	381928849	19593	383885649
19494	380016036	19544	381967936	19594	383924836
19495	380055025	19545	382007025	19595	383964025
19496	380094016	19546	382046116	19596	384003216
19497	380133009	19547	382085209	19597	384042409
19498	380172004	19548	382124304	19598	384081604
19499	380211001	19549	382163401	19599	384120801
19500	380250000	19550	382202500	19600	384160000

19 M. 6 C.		19 M. 6 C.		19 M. 7 C.	
R.	Sq.	R.	Sq.	R.	Sq.
19601	384199201	19651	386161801	19701	388129401
19602	384238404	19652	386201104	19702	388168804
19603	384277609	19653	386240409	19703	388208209
19604	384316816	19654	386279716	19704	388247616
19605	384356025	19655	386319025	19705	388287025
19606	384395236	19656	386358336	19706	388326436
19607	384434449	19657	386397649	19707	388365849
19608	384473664	19658	386436964	19708	388405264
19609	384512881	19659	386476281	19709	388444681
19610	384552100	19660	386515600	19710	388484100
19611	384591321	19661	386554921	19711	388523521
19612	384630544	19662	386594244	19712	388562944
19613	384669769	19663	386633569	19713	388602369
19614	384708996	19664	386672896	19714	388641796
19615	384748225	19665	386712225	19715	388681225
19616	384787456	19666	386751556	19716	388720656
19617	384826689	19667	386790889	19717	388760089
19618	384865924	19668	386830224	19718	388799524
19619	384905161	19669	386869561	19719	388838961
19620	384944400	19670	386908900	19720	388878400
19621	384983641	19671	386948241	19721	388917841
19622	385022884	19672	386987584	19722	388957284
19623	385062129	19673	387026929	19723	388996729
19624	385101376	19674	387066276	19724	389036176
19625	385140625	19675	387105625	19725	389075625
19626	385179876	19676	387144976	19726	389115076
19627	385219129	19677	387184329	19727	389154529
19628	385258384	19678	387223684	19728	389193984
19629	385297641	19679	387263041	19729	389233441
19630	385336900	19680	387302400	19730	389272900
19631	385376161	19681	387341761	19731	389312361
19632	385415424	19682	387381124	19732	389351824
19633	385454689	19683	387420489	19733	389391289
19634	385493956	19684	387459856	19734	389431756
19635	385533225	19685	387499225	19735	389470225
19636	385572496	19686	387538596	19736	389509696
19637	385611769	19687	387577969	19737	389549169
19638	385651044	19688	387617344	19738	389588644
19639	385690321	19689	387656721	19739	389628121
19640	385729600	19690	387696100	19740	389667600
19641	385768881	19691	387735481	19741	389707081
19642	385808164	19692	387774864	19742	389746564
19643	385847449	19693	387814249	19743	389786049
19644	385886736	19694	387853636	19744	389825536
19645	385926025	19695	387893025	19745	389865025
19646	385965316	19696	387932416	19746	389904516
19647	386004609	19697	387971809	19747	389944009
19648	386043904	19698	388011204	19748	389983504
19649	386083201	19699	388050601	19749	390023001
19650	386122500	19700	388090000	19750	390062500

19 M. 7 C.		19 M. 8 C.		19 M. 8 C.	
R.	Sq.	R.	Sq.	R.	Sq.
19751	390102001	19801	392079601	19851	394062201
19752	390141504	19802	392119204	19852	394101904
19753	390181009	19803	392158809	19853	394141609
19754	390220516	19804	392198416	19854	394181316
19755	390260025	19805	392238025	19855	394221025
19756	390299536	19806	392277636	19856	394260736
19757	390339049	19807	392317249	19857	394300449
19758	390378564	19808	392356864	19858	394340164
19759	390418081	19809	392396481	19859	394 79881
19760	390457600	19810	392436100	19860	394419600
19761	390497121	19811	392475721	19861	394459321
19762	390536644	19812	392515344	19862	394499044
19763	390576169	19813	392554969	19863	394538769
19764	390615696	19814	392594596	19864	394578496
19765	390655225	19815	392634225	19865	394618225
19766	390694756	19816	392673856	19866	394657956
19767	390734289	19817	392713489	19867	394697689
19768	390773824	19818	392753124	19868	394737424
19769	390813361	19819	392792761	19869	394777161
19770	390852900	19820	392832400	19870	394816900
19771	390892441	19821	392872041	19871	394836541
19772	390931984	19822	392911684	19872	394896384
19773	390971529	19823	392951339	19873	394936129
19774	391011076	19824	392990976	19874	394975876
19775	391050625	19825	393030625	19875	395015625
19776	391090176	19826	393070276	19876	395055376
19777	391129729	19827	393109929	19877	395095129
19778	391169284	19828	393149584	19878	395134884
19779	391208841	19829	393189241	19879	395174641
19780	391248400	19830	393228900	19880	395214400
19781	391287961	19831	393268561	19881	395254161
19782	391327524	19832	393308224	19882	395293924
19783	391367089	19833	393347889	19883	395333689
19784	391406656	19834	393387556	19884	395373456
19785	391446225	19835	393427225	19885	395413225
19786	391485796	19836	393466896	19886	395452996
19787	391525369	19837	393506569	19887	395492769
19788	391564944	19838	393546244	19888	395532544
19789	391604521	19839	393585921	19889	395572321
19790	391644100	19840	393625600	19890	395612100
19791	391683681	19841	393665281	19891	395651881
19792	391723264	19842	393704964	19892	395691664
19793	391762849	19843	393744649	19893	395731449
19794	391802436	19844	393784336	19894	395771236
19795	391842025	19845	393824025	19895	395811025
19796	391881616	19846	393861736	19896	395850816
19797	391921209	19847	393903409	19897	395890609
19798	392960804	19848	393943104	19898	395930404
19799	392000401	19849	393982801	19899	395970201
19800	392040000	19850	394022500	19900	396010000

19 M. 9 C.		19 M. 9 C.		20 M.	
R.	Sq.	R.	Sq.	R.	Sq.
19901	396049801	19951	398042401	20001	400040001
19902	396089604	19952	398082304	20002	400080004
19903	396129409	19953	398122209	20003	400120009
19904	396169216	19954	398162116	20004	400160016
19905	396209025	19955	398202025	20005	400200025
19906	396248836	19956	398241936	20006	400240036
19907	396288649	19957	398281849	20007	400280049
19908	396328464	19958	398321764	20008	400320064
19909	396368281	19959	398361681	20009	400360081
19910	396408100	19960	398401600	20010	400400100
19911	396447921	19961	398441521	20011	400440121
19912	396487744	19962	398481444	20012	400480144
19913	396527569	19963	398521369	20013	400520169
19914	396567396	19964	398561296	20014	400560196
19915	396607225	19965	398601225	20015	400600225
19916	396647056	19966	398641156	20016	400640256
19917	396686889	19967	398681089	20017	400680289
19918	396726724	19968	398721024	20018	400720324
19919	396766561	19969	398760961	20019	400760361
19920	396806400	19970	398800900	20020	400800400
19921	396846241	19971	398840841	20021	400840441
19922	396886084	19972	398880784	20022	400880484
19923	396925929	19973	398920729	20023	400920529
19924	396965776	19974	398960676	20024	400960576
19925	397005625	19975	399000625	20025	401000525
19926	397045476	19976	399040576	20026	401040676
19927	397085329	19977	399080529	20027	401080729
19928	397125184	19978	399120484	20028	401120784
19929	397165041	19979	399160441	20029	401160841
19930	397204900	19980	399200400	20030	401200900
19931	397244761	19981	399240361	20031	401240961
19932	397284624	19982	399280324	20032	401281024
19933	397324489	19983	399320289	20033	401321089
19934	397364356	19984	399360256	20034	401361156
19935	397404225	19985	399400225	20035	401401225
19936	397444096	19986	399440196	20036	401441296
19937	397483969	19987	399480169	20037	401481369
19938	397523844	19988	399520144	20038	401521444
19939	397563721	19989	399560121	20039	401561521
19940	397603600	19990	399600100	20040	401601600
19941	397643481	19991	399640081	20041	401641681
19942	397683364	19992	399680064	20042	401681764
19943	397723249	19993	399720049	20043	401721849
19944	397763136	19994	399760036	20044	401761936
19945	397803025	19995	399800025	20045	401802025
19946	397842916	19996	399840016	20046	401842116
19947	397882809	19997	399880009	20047	401882209
19948	397922704	19998	399920004	20048	401922304
19949	397962601	19999	399960001	20049	401962401
19950	398002500	20000	400000000	20050	402002500

20 M.		20 M. 1 C.		20 M. 1 C.	
R.	Sq.	R.	Sq.	R.	Sq.
20051	402042601	20101	404050201	20151	406062801
20052	402082704	20102	404090404	20152	406103104
20053	402122809	20103	404130609	20153	406143409
20054	402162916	20104	404170816	20154	406183716
20055	402203025	20105	404211025	20155	406224025
20056	402243136	20106	404251236	20156	406264336
20057	402283249	20107	404291449	20157	406304649
20058	402323364	20108	404331664	20158	406344964
20059	402363481	20109	404371881	20159	406385281
20060	402403600	20110	404412100	20160	406425600
20061	402443721	20111	404452321	20161	406465921
20062	402483844	20112	404492544	20162	406506244
20063	402523969	20113	404532769	20163	406546569
20064	402564056	20114	404572996	20164	406586896
20065	402604225	20115	404613225	20165	406627225
20066	402644356	20116	404653456	20166	406667556
20067	402684489	20117	404693689	20167	406707889
20068	402724624	20118	404733924	20168	406748224
20069	402764761	20119	404774161	20169	406788561
20070	402804900	20120	404814400	20170	406828900
20071	402845041	20121	404854641	20171	406869241
20072	402885184	20122	404894884	20172	406909584
20073	402925329	20123	404935129	20173	406949929
20074	402965476	20124	404975376	20174	406990276
20075	403005625	20125	405015625	20175	407030625
20076	403045776	20126	405055876	20176	407070976
20077	403085929	20127	405096129	20177	407111329
20078	403126084	20128	405136384	20178	407151684
20079	403166241	20129	405176641	20179	407192041
20080	403206400	20130	405216900	20180	407232400
20081	403246561	20131	405257161	20181	407272761
20082	403286725	20132	405297424	20182	407313124
20083	403326889	20133	405337689	20183	407353489
20084	403367056	20134	405377956	20184	407393856
20085	403407225	20135	405418225	20185	407434225
20086	403447396	20136	405458496	20186	407474596
20087	403487569	20137	405498769	20187	407514969
20088	403527744	20138	405539044	20188	407555344
20089	403567921	20139	405579321	20189	407595721
20090	403608100	20140	405619600	20190	407636100
20091	403648281	20141	405659881	20191	407676481
20092	403688464	20142	405700164	20192	407716864
20093	403728649	20143	405740449	20193	407757249
20094	403768836	20144	405780736	20194	407797636
20095	403809025	20145	405821025	20195	407838025
20096	403849216	20146	405861316	20196	407878416
20097	403889409	20147	405901609	20197	407918809
20098	403929604	20148	405941904	20198	407959204
20099	403969801	20149	405982201	20199	407999601
20100	404010000	20150	406022500	20200	408040000

20 M. 2 C.		20 M. 2 C.		20 M. 3 C.	
R.	Sq.	R.	Sq.	R.	Sq.
20201	408080401	20251	410103001	20301	412130601
20202	408120804	20252	410143504	20302	412171204
20203	408161209	20253	410184009	20303	412211809
20204	408201616	20254	410224516	20304	412252416
20205	408242025	20255	410265025	20305	412293025
20206	408282436	20256	410305536	20306	412333636
20207	408322849	20257	410346049	20307	412374249
20208	408363264	20258	410386564	20308	412414864
20209	408403681	20259	410427081	20309	412455481
20210	408444100	20260	410467600	20310	412496100
20211	408484521	20261	410508121	20311	412536721
20212	408524944	20262	410548644	20312	412577344
20213	408565369	20263	410589169	20313	412617969
20214	408605796	20264	410629696	20314	412658596
20215	408646225	20265	410670225	20315	412699225
20216	408686656	20266	410710756	20316	412739856
20217	408727089	20267	410751289	20317	412780489
20218	408767524	20268	410791824	20318	412821124
20219	408807961	20269	410832361	20319	412861761
20220	408848400	20270	410872900	20320	412902400
20221	408888841	20271	410913441	20321	412943041
20222	408929284	20272	410953984	20322	412983684
20223	408969729	20273	410994529	20323	413024329
20224	409010176	20274	411035076	20324	413064976
20225	409050625	20275	411075625	20325	413105625
20226	409091076	20276	411116176	20326	413146276
20227	409131529	20277	411156729	20327	413186929
20228	409171984	20278	411197284	20328	413227584
20229	409212441	20279	411237841	20329	413268241
20230	409252900	20280	411278400	20330	413308900
20231	409293361	20281	411318961	20331	413349561
20232	409333824	20282	411359524	20332	413390224
20233	409374289	20283	411400089	20333	413430889
20234	409414756	20284	411440656	20334	413471556
20235	409455225	20285	411481225	20335	413512225
20236	409495696	20286	411521796	20336	413552896
20237	409536169	20287	411562369	20337	413593569
20238	409576644	20288	411602944	20338	413634244
20239	409617121	20289	411643521	20339	413674921
20240	409657600	20290	411684100	20340	413715600
20241	409698081	20291	411724681	20341	413756281
20242	409738564	20292	411765264	20342	413796964
20243	409779049	20293	411805849	20343	413837649
20244	409819536	20294	411846436	20344	413878336
20245	409860025	20295	411887025	20345	413919025
20246	409900516	20296	411927616	20346	413959716
20247	409941009	20297	411968209	20347	414000409
20248	409981504	20298	412008804	20348	414041104
20249	410022001	20299	412049401	20349	414081801
20250	410062500	20300	412090000	20350	414122500

20 M. 3 C.		20 M. 4 C.		20 M. 4 C.	
R.	Sq.	R.	Sq.	R.	Sq.
20351	414163201	20401	416200801	20451	418243401
20352	414203904	20402	416241604	20452	418284304
20353	414244609	20403	416282409	20453	418325209
20354	414285316	20404	416323216	20454	418366116
20355	414326025	20405	416364025	20455	418407025
20356	414366736	20406	416404836	20456	418447936
20357	414407449	20407	416445649	20457	418488849
20358	414448164	20408	416486464	20458	418529764
20359	414488881	20409	416527281	20459	418570681
20360	414529600	20410	416568100	20460	418611600
20361	414570321	20411	416608921	20461	418652521
20362	414611044	20412	416649744	20462	418693444
20363	414651769	20413	416690569	20463	418734369
20364	414692496	20414	416731396	20464	418775296
20365	414733225	20415	416772225	20465	418816225
20366	414773956	20416	416813056	20466	418857156
20367	414814689	20417	416853889	20467	418898089
20368	414855424	20418	416894724	20468	418939024
20369	414896161	20419	416935561	20469	418979961
20370	414936900	20420	416976400	20470	419020900
20371	414977641	20421	417017241	20471	419061841
20372	415018384	20422	417058084	20472	419102784
20373	415059129	20423	417098929	20473	419143729
20374	415099876	20424	417139776	20474	419184676
20375	415140625	20425	417180625	20475	419225625
20376	415181376	20426	417221476	20476	419266576
20377	415222129	20427	417262329	20477	419307529
20378	415262884	20428	417303184	20478	419348484
20379	415303641	20429	417344041	20479	419389441
20380	415344400	20430	417384900	20480	419430400
20381	415385161	20431	417425761	20481	419471361
20382	415425924	20432	417466624	20482	419512324
20383	415466689	20433	417507489	20483	419553289
20384	415507456	20434	417548356	20484	419594256
20385	415548225	20435	417589225	20485	419635225
20386	415588996	20436	417630096	20486	419676196
20387	415629769	20437	417670969	20487	419717169
20388	415670544	20438	417711844	20488	419758144
20389	415711321	20439	417752721	20489	419799121
20390	415752100	20440	417793600	20490	419840100
20391	415792881	20441	417834481	20491	419881081
20392	415833664	20442	417875364	20492	419922064
20393	415874449	20443	417916249	20493	419963049
20394	415915236	20444	417957136	20494	420004036
20395	415956025	20445	417998025	20495	420045025
20396	415996816	20446	418038916	20496	420086016
20397	416037609	20447	418079809	20497	420127009
20398	416078404	20448	418120704	20498	420168004
20399	416119201	20449	418161601	20499	420209001
20400	416160000	20450	418202500	20500	420250000

20 M. 5 C.		20 M. 5 C.		20 M. 6 C.	
R.	Sq.	R.	Sq.	R.	Sq.
20501	420291001	20551	422343601	20601	424401201
20502	420332004	20552	422384704	20602	424442404
20503	420373009	20553	422425809	20603	424483609
20504	420414016	20554	422466916	20604	424524816
20505	420455025	20555	422508025	20605	424566025
20506	420496036	20556	422549136	20606	424607236
20507	420537049	20557	422590249	20607	424648449
20508	420578064	20558	422631364	20608	424689664
20509	420619081	20559	422672481	20609	424730881
20510	420660100	20560	422713600	20610	424772100
20511	420701121	20561	422754721	20611	424813321
20512	420742144	20562	422795844	20612	424854544
20513	420783169	20563	422836969	20613	424895769
20514	420824196	20564	422878096	20614	424936996
20515	420865225	20565	422919225	20615	424978225
20516	420906256	20566	422960356	20616	425019456
20517	420947289	20567	423001489	20617	425060689
20518	420988324	20568	423042624	20618	425101924
20519	421029361	20569	423083761	20619	425143161
20520	421070400	20570	423124900	20620	425184400
20521	421111441	20571	423166041	20621	425225641
20522	421152484	20572	423207184	20622	425266884
20523	421193529	20573	423248329	20623	425308129
20524	421234576	20574	423289476	20624	425349376
20525	421275625	20575	423330625	20625	425390625
20526	421316676	20576	423371776	20626	425431876
20527	421357729	20577	423412929	20627	425473129
20528	421398789	20578	423454084	20628	425514384
20529	421439841	20579	423495241	20629	425555641
20530	421480900	20580	423536400	20630	425596900
20531	421521961	20581	423577561	20631	425638161
20532	421563024	20582	423618724	20632	425679424
20533	421604089	20583	423659889	20633	425720689
20534	421645156	20584	423701056	20634	425761956
20535	421686225	20585	423742225	20635	425803225
20536	421727296	20586	423783396	20636	425844496
20537	421768369	20587	423824569	20637	425885769
20538	421809444	20588	423865744	20638	425927044
20539	421850521	20589	423906921	20639	425968321
20540	421891600	20590	423948100	20640	426009600
20541	421932681	20591	423989281	20641	426050881
20542	421973764	20592	424030464	20642	426092164
20543	422014849	20593	424071649	20643	426133449
20544	422055936	20594	424112836	20644	426174736
20545	422097025	20595	424154025	20645	426216025
20546	422138116	20596	424195216	20646	426257316
20547	422179209	20597	424236409	20647	426298609
20548	422220304	20598	424277604	20648	426339904
20549	422261401	20599	424318801	20649	426381201
20550	422302500	20600	424360000	20650	426422500

20 M. 6 C.		20 M. 7 C.		20 M. 7 C.	
R.	Sq.	R.	Sq.	R.	Sq.
20651	426463801	20701	428531401	20751	430604001
20652	426505104	20702	428572804	20752	430645504
20653	426546409	20703	428614209	20753	430687009
20654	426587716	20704	428655616	20754	430728516
20655	426629025	20705	428697025	20755	430770025
20656	426670336	20706	428738436	20756	430811536
20657	426711649	20707	428779849	20757	430853049
20658	426752964	20708	428821264	20758	430894564
20659	426794281	20709	428862681	20759	430936081
20660	426835600	20710	428904100	20760	430977600
20661	426876921	20711	428945521	20761	431019121
20662	426918244	20712	428986944	20762	431060644
20663	426959569	20713	429028369	20763	431102169
20664	427000896	20714	429069796	20764	431143696
20665	427042225	20715	429111225	20765	431185225
20666	427083556	20716	429152656	20766	431226756
20667	427124889	20717	429194089	20767	431268289
20668	427166224	20718	429235524	20768	431309824
20669	427207561	20719	429276961	20769	431351361
20670	427248900	20720	429318400	20770	431392900
20671	427290241	20721	429359841	20771	431434441
20672	427331584	20722	429401284	20772	431475984
20673	427372929	20723	429442729	20773	431517529
20674	427414276	20724	429484176	20774	431559076
20675	427455625	20725	429525625	20775	431600625
20676	427496976	20726	429567076	20776	431642176
20677	427538329	20727	429608529	20777	431683729
20678	427579684	20728	429649984	20778	431725284
20679	427621041	20729	429691441	20779	431766841
20680	427662400	20730	429732900	20780	431808400
20681	427703761	20731	429774361	20781	431849961
20682	427745124	20732	429815824	20782	431891524
20683	427786489	20733	429857289	20783	431933089
20684	427827856	20734	429898756	20784	431974656
20685	427869225	20735	429940225	20785	432016225
20686	427910596	20736	429981696	20786	432057796
20687	427951969	20737	430023169	20787	432099369
20688	427993344	20738	430064644	20788	432140944
20689	428034721	20739	430106121	20789	432182521
20690	428076100	20740	430147600	20790	432224100
20691	428117481	20741	430189081	20791	432265681
20692	428158864	20742	430230564	20792	432307264
20693	428200249	20743	430272049	20793	432348849
20694	428241636	20744	430313536	20794	432390436
20695	428283025	20745	430355025	20795	432432025
20696	428324416	20746	430396516	20796	432473616
20697	428365809	20747	430438009	20797	432515209
20698	428407204	20748	430479504	20798	432556804
20699	428448601	20749	430521001	20799	432598401
20700	428490000	20750	430562500	20800	432640000

20 M. 8 C.		20 M. 8 C.		20 M. 9 C.	
R.	Sq.	R.	Sq.	R.	Sq.
20801	432681601	20851	434764201	20901	436851801
20802	432723204	20852	434805904	20902	436893604
20803	432764809	20853	434847609	20903	436935409
20804	432806416	20854	434889316	20904	436977216
20805	432848025	20855	434931025	20905	437019025
20806	432889636	20856	434972736	20906	437060836
20807	432931249	20857	435014449	20907	437102649
20808	432972864	20858	435056164	20908	437144464
20809	433014481	20859	435097881	20909	437186281
20810	433056100	20860	435139600	20910	437228100
20811	433265681	20861	435181321	20911	437269921
20812	433307264	20862	435223044	20912	437311744
20813	433348849	20863	435264769	20913	437353569
20814	433390436	20864	435306496	20914	437395396
20815	433432025	20865	435348225	20915	437437225
20816	433473616	20866	435389956	20916	437479056
20817	433515209	20867	435431689	20917	437520889
20818	433556804	20868	435473424	20918	437562724
20819	433598401	20869	435515161	20919	437604561
20820	433472400	20870	435556900	20920	437646400
20821	433514041	20871	435598641	20921	437688241
20822	433555684	20872	435640384	20922	437730084
20823	433597329	20873	435682129	20923	437771929
20824	433638976	20874	435723876	20924	437813776
20825	433680625	20875	435765625	20925	437855625
20826	433722276	20876	435807376	20926	437897476
20827	433763929	20877	435849129	20927	437939329
20828	433805584	20878	435890884	20928	437981184
20829	433847241	20879	435932641	20929	438023041
20830	433888900	20880	435974400	20930	438064900
20831	433930561	20881	436016161	20931	438106761
20832	433972224	20882	436057924	20932	438148624
20833	434013889	20883	436099689	20933	438190489
20834	434055556	20884	436141456	20934	438232356
20835	434097225	20885	436183225	20935	438274225
20836	434138896	20886	436224996	20936	438316096
20837	434180569	20887	436266769	20937	438357969
20838	434222244	20888	436308544	20938	438399844
20839	434263921	20889	436350321	20939	438441721
20840	434305600	20890	436392100	20940	438483600
20841	434347281	20891	436433881	20941	438525481
20842	434388964	20892	436475664	20942	438567364
20843	434430649	20893	436517449	20943	438609249
20844	434472336	20894	436559236	20944	438651136
20845	434514025	20895	436601025	20945	438693025
20846	434555716	20896	436642816	20946	438734916
20847	434597409	20897	436684609	20947	438776809
20848	434639104	20898	436726404	20948	438818704
20849	434680801	20899	436768201	20949	438860601
20850	434722500	20900	436810000	20950	438902500

20 *M.* 9 *C.*		21 *M.*		21 *M.* 1 *C.*	
R.	Sq.	R.	Sq.	R.	Sq.
20951	438944401	21001	441042001	21051	443144601
20952	438986304	21002	441084004	21052	443186704
20953	439028209	21003	441126009	21053	443228809
20954	439070116	21004	441168016	21054	443270916
20955	439112025	21005	441210025	21055	443313025
20956	439153936	21006	441252036	21056	443355136
20957	439195849	21007	441294049	21057	443397249
20958	439237764	21008	441336064	21058	443439364
20959	439279681	21009	441378081	21059	443481481
20960	439321600	21010	441420100	21060	443523600
20961	439363521	21011	441462121	21061	443565721
20962	439405444	21012	441504144	21062	443607844
20963	439447369	21013	441546169	21063	443649969
20964	439489296	21014	441588196	21064	443692096
20965	439531225	21015	441630225	21065	443734225
20966	439573156	21016	441672256	21066	443776356
20967	439615089	21017	441714289	21067	443818489
20968	439657024	21018	441756324	21068	443860624
20969	439698961	21019	441798361	21069	443902761
20970	439740900	21020	441840400	21070	443944900
20971	439782841	21021	441882441	21071	443987041
20972	439824784	21022	441924484	21072	444029184
20973	439866729	21023	441966529	21073	444071329
20974	439908676	21024	442008576	21074	444113476
20975	439950625	21025	442050625	21075	444155625
20976	439992576	21026	442092676	21076	444197776
20977	440034529	21027	442134729	21077	444239929
20978	440076484	21028	442176784	21078	444282084
20979	440118441	21029	442218841	21079	444324241
20980	440160400	21030	442260900	21080	444366400
20981	440202361	21031	442302961	21081	444408561
20982	440244324	21032	442345024	21082	444450724
20983	440286289	21033	442387089	21083	444492889
20984	440328256	21034	442429156	21084	444535056
20985	440370225	21035	442471225	21085	444577225
20986	440412196	21036	442513296	21086	444619396
20987	440454169	21037	442555369	21087	444661569
20988	440496144	21038	442597444	21088	444703744
20989	440538121	21039	442639521	21089	444745921
20990	440580100	21040	442681600	21090	444788100
20991	440622081	21041	442723681	21091	444830281
20992	440664064	21042	442765764	21092	444872464
20993	440706049	21043	442807849	21093	444914649
20994	440748036	21044	442849936	21094	444956836
20995	440790025	21045	442892025	21095	444999025
20996	440832016	21046	442934116	21096	445041216
20997	440874009	21047	442976209	21097	445083409
20998	440916004	21048	443018304	21098	445125604
20999	440958001	21049	443060401	21099	445167801
21000	441000000	21050	443102500	21100	445210000

21 M. 1 C.		21 M. 1 C.		21 M. 2 C.	
R.	Sq.	R.	Sq.	R.	Sq.
21101	445252201	21151	447364801	21201	449482401
21102	445294404	21152	447407104	21202	449524804
21103	445336609	21153	447449409	21203	449567209
21104	445378816	21154	447491716	21204	449609616
21105	445421025	21155	447534025	21205	449652025
21106	445463256	21156	447576336	21206	449694436
21107	445504449	21157	447618649	21207	449736849
21108	445547664	21158	447660964	21208	449779264
21109	445589881	21159	447703281	21209	449821681
21110	445632100	21160	447745600	21210	449864100
21111	445674321	21161	447787921	21211	449906521
21112	445716544	21162	447830244	21212	449948944
21113	445758769	21163	447872569	21213	449991369
21114	445800996	21164	447914896	21214	450033796
21115	445843225	21165	447957225	21215	450076225
21116	445885456	21166	447999556	21216	450118656
21117	445927689	21167	448041889	21217	450161089
21118	445969924	21168	448084224	21218	450203524
21119	445012161	21169	448126561	21219	450245961
21120	446054400	21170	448168900	21220	450288400
21121	446096641	21171	448211241	21221	450330841
21122	446138884	21172	448253584	21222	450373284
21123	446181129	21173	448295929	21223	450415729
21124	446223376	21174	448338276	21224	450458176
21125	446265625	21175	448380625	21225	450500625
21126	446307876	21176	448422976	21226	450543076
21127	446350129	21177	448465329	21227	450585529
21128	446392384	21178	448507684	21228	450627984
21129	446434641	21179	448550041	21229	450670441
21130	446476900	21180	448592400	21230	450712900
21131	446519161	21181	448634761	21231	450755361
21132	446561424	21182	448677124	21232	450797824
21133	446603689	21183	448719489	21233	450840289
21134	446645956	21184	448761856	21234	450882756
21135	446688225	21185	448804225	21235	450925225
21136	446730496	21186	448846596	21236	450967696
21137	446772769	21187	448888969	21237	451010169
21138	446815044	21188	448931344	21238	451052644
21139	446857321	21189	448973721	21239	451095121
21140	446899600	21190	449016100	21240	451137600
21141	446941881	21191	449058481	21241	451180081
21142	446984164	21192	449100864	21242	451222564
21143	447026449	21193	449143249	21243	451265049
21144	447068736	21194	449185636	21244	451307536
21145	447111025	21195	449228025	21245	451350025
21146	447153316	21196	449270416	21246	451392516
21147	447195609	21197	449312809	21247	451435009
21148	447237904	21198	449355204	21248	451477504
21149	447280201	21199	449397601	21249	451520001
21150	447322500	21200	449440000	21250	451562500

21 M. 2 C.		21 M. 3 C.		21 M. 3 C.	
R.	Sq.	R.	Sq.	R.	Sq.
21251	451605001	21301	453732601	21351	455865201
21252	451647504	21302	453775204	21352	455907904
21253	451690009	21303	453817809	21353	455950609
21254	451732516	21304	453860416	21354	455993316
21255	451775025	21305	453903025	21355	456036025
21256	451817536	21306	453945636	21356	456078736
21257	451860049	21307	453988249	21357	456121449
21258	451902564	21308	454030864	21358	456164164
21259	451945081	21309	454073481	21359	456206881
21260	451987600	21310	454116100	21360	456249600
21261	452030121	21311	454158721	21361	456292331
21262	452072644	21312	454201344	21362	456335044
21263	452115169	21313	454243969	21363	456377769
21264	452157696	21314	454286596	21364	456420496
21265	452200225	21315	454329225	21365	456463225
21266	452242756	21316	454371856	21366	456505956
21267	452285289	21317	454414489	21367	456548689
21268	452327824	21318	454457124	21368	456591424
21269	452370361	21319	454499761	21369	456634161
21270	452412900	21320	454542400	21370	456676900
21271	452455441	21321	454585041	21371	456719641
21272	452497984	21322	454627684	21372	456762384
21273	452540529	21323	454670329	21373	456805129
21274	452583076	21324	454712976	21374	456847876
21275	452625625	21325	454755625	21375	456890625
21276	452668176	21326	454798276	21376	456933376
21277	452710729	21327	454840929	21377	456976129
21278	452753284	21328	454883584	21378	457018884
21279	452795841	21329	454926241	21379	457061641
21280	452838400	21330	454968900	21380	457104400
21281	452880961	21331	455011561	21381	457147161
21282	452923524	21332	455054224	21382	457189924
21283	452966089	21333	455096889	21383	457232689
11284	453008656	21334	455139556	21384	457275456
21285	453051225	21335	455182225	21385	457318225
21286	453093796	21336	455224895	21386	457360996
21287	453136369	21337	455267569	21387	457403769
21288	453178944	21338	455310244	21388	457446544
21289	453221521	21339	455352921	21389	457489321
21290	453264100	21340	455395600	21390	457532100
21291	453306681	21341	455438281	21391	457574881
21292	453349264	21342	455480964	21392	457617664
21293	453391849	21343	455523649	21393	457660449
21294	453434436	21344	455566336	21394	457703236
21295	453477025	21345	455609025	21395	457746025
21296	453519616	21346	455651716	21396	457788816
21297	453562209	21347	455694409	21397	457831609
21298	453604804	21348	455737104	21398	457874404
21299	453647401	21349	455779801	21399	457917201
21300	453690000	21350	455822500	21400	457960000

21 M. 4 C.		21 M. 4 C.		21 M. 5 C.	
R.	Sq.	R.	Sq.	R.	Sq.
21401	458002801	21451	460145401	21501	462293001
21402	458045604	21452	460188304	21502	462336004
21403	458088409	21453	460231209	21503	462379009
21404	458131216	21454	460274116	21504	462422016
21405	458174025	21455	460317025	21505	462465025
21406	458216836	21456	460359936	21506	462508036
21407	458259649	21457	460402849	21507	462551049
21408	458302464	21458	460445764	21508	462594064
21409	458345281	21459	460488681	21509	462637081
21410	458388100	21460	460531600	21510	462680100
21411	458430921	21461	460574521	21511	462723121
21412	458473744	21462	460617444	21512	462766144
21413	458516569	21463	460660369	21513	462809169
21414	458559396	21464	460703296	21514	462852196
21415	458602225	21465	460746225	21515	462895225
21416	458645056	21466	460789156	21516	462938256
21417	458687889	21467	460832089	21517	462981289
21418	458730724	21468	460875024	21518	463024324
21419	458773561	21469	460917961	21519	463067361
21420	458816400	21470	460960900	21520	463110400
21421	458859241	21471	461003841	21521	463153441
21422	458902084	21472	461046784	21522	463196484
21423	458944929	21473	461089729	21523	463239529
21424	458987776	21474	461132676	21524	463282576
21425	459030625	21475	461175625	21525	463325625
21426	459073476	21476	461218576	21526	463368676
21427	459116329	21477	461261529	21527	463411729
21428	459159184	21478	461304484	21528	463454784
21429	459202041	21479	461347441	21529	463497841
21430	459244900	21480	461390400	21530	463540900
21431	459287761	21481	461433361	21531	463583961
21432	459330624	21482	461476324	21532	463627024
21433	459373489	21483	461519289	21533	463670089
21434	459416356	21484	461562256	21534	463713156
21435	459459225	21485	461605225	21535	463756225
21436	459502096	21486	461648196	21536	463799296
21437	459544969	21487	461691169	21537	463842369
21438	459587844	21488	461734144	21538	463885444
21439	459630721	21489	461777121	21539	463928521
21440	459673600	21490	461820100	21540	463971600
21441	459716481	21491	461863081	21541	464014681
21442	459759364	21492	461906064	21542	464057764
21443	459802249	21493	461949049	21543	464100849
21444	459845136	21494	461992036	21544	464143936
21445	459888025	21495	462035025	21545	464187025
21446	459930916	21496	462078016	21546	464230116
21447	459973809	21497	462121009	21547	464273209
21448	460016704	21498	462164004	21548	464316304
21449	460059601	21499	462207001	21549	464359401
21450	460102500	21500	462250000	21550	464402500

21 *M.* 5 *C.*		21 *M.* 6 *C.*		21 *M.* 6 *C.*	
R.	Sq.	R.	Sq.	R.	Sq.
21551	464445601	21601	466603201	21651	468765801
21552	464488704	21602	466646404	21652	468809104
21553	464531809	21603	466689609	21653	468852409
21554	464574916	21604	466732816	21654	468895716
21555	464618025	21605	466776025	21655	468939025
21556	464661136	21606	466819236	21656	468982336
21557	464704249	21607	466862449	21657	469025649
21558	464747364	21608	466905664	21658	469068964
21559	464790481	21609	466948881	21659	469112281
21560	464833600	21610	466992100	21660	469155600
21561	464876721	21611	467035321	21661	469198921
21562	464919844	21612	467078544	21662	469242244
21563	464962969	21613	467121769	21663	469285569
21564	465006096	21614	467164996	21664	469328896
21565	465049225	21615	467208225	21665	469372225
21566	465092356	21616	467251456	21666	469415556
21567	465135489	21617	467294689	21667	469458889
21568	465178624	21618	467337924	21668	469502224
21569	465221761	21619	467381161	21669	469545561
21570	465264900	21620	467424400	21670	469588900
21571	465308041	21621	467467641	21671	469632241
21572	465351184	21622	467510884	21672	469675584
21573	465394329	21623	467554129	21673	469718929
21574	465437476	21624	467597376	21674	469762276
21575	465480625	21625	467640625	21675	469805625
21576	465523776	21626	467683876	21676	469848976
21577	465566929	21627	467727129	21677	469892329
21578	465510084	21628	467770384	21678	469935684
21579	465653241	21629	467813641	21679	469979041
21580	465696400	21630	467856900	21680	470022400
21581	465739561	21631	467900161	21681	470065761
21582	465782724	21632	467943424	21682	470109124
21583	465825889	21633	467986689	21683	470152489
21584	465869056	21634	468029956	21684	470195856
21585	465912225	21635	468073225	21685	470239225
21586	465955396	21636	468116496	21686	470282596
21587	465998569	21637	468159769	21687	470325969
21588	466041744	21638	468203044	21688	470369344
21589	466084921	21639	468246321	21689	470412721
21590	466128100	21640	468289600	21690	470456100
21591	466171281	21641	468332881	21691	470499481
21592	466214464	21642	468376164	21692	470542864
21593	466257649	21643	468419449	21693	470586249
21594	466300836	21644	468462736	21694	470629636
21595	466344025	21645	468506025	21695	470673025
21596	466387216	21646	468549316	21696	470716416
21597	466430409	21647	468592609	21697	470759809
21598	466473604	21648	468635904	21698	470803204
21599	466516801	21649	468679201	21699	470846601
21600	466560000	21650	468722500	21700	470890000

21 M. 7 C.		21 M. 7 C.		21 M. 8 C.	
R.	Sq.	R.	Sq.	R.	Sq.
21701	470933401	21751	473106001	21801	475283601
21702	470976804	21752	473149504	21802	475327204
21703	471020209	21753	473193009	21803	475370809
21704	471063616	21754	473236516	21804	475414416
21705	471107025	21755	473280025	21805	475458025
21706	471150436	21756	473323536	21806	475501636
21707	471193849	21757	473367049	21807	475545249
21708	471237264	21758	473410564	21808	475588864
21709	471280681	21759	473454081	21809	475632481
21710	471324100	21760	473497600	21810	475676100
21711	471367521	21761	473541121	21811	475719721
21712	471410944	21762	473584644	21812	475763344
21713	471454369	21763	473628169	21813	475806969
21714	471497796	21764	473671696	21814	475850596
21715	471541225	21765	473715225	21815	475894225
21716	471584656	21766	473758756	21816	475937856
21717	471628089	21767	473802289	21817	475981489
21718	471671524	21768	473845824	21818	476025124
21719	471714961	21769	473889361	21819	476068761
21720	471758400	21770	473932900	21820	476112400
21721	471801841	21771	473976441	21821	476156041
21722	471845284	21772	474019984	21822	476199684
21723	471888729	21773	474063529	21823	476243329
21724	471932176	21774	474107076	21824	476286976
21725	471975625	21775	474150625	21825	476330625
21726	472019076	21776	474194176	21826	476374276
21727	472062529	21777	474237729	21827	476417929
21728	472105984	21778	474281284	21828	476461584
21729	472149441	21779	474324841	21829	476505241
21730	472192900	21780	474368400	21830	476548900
21731	472236361	21781	474411961	21831	476592561
21732	472279824	21782	474455524	21832	476636224
21733	472323289	21783	474499089	21833	476679889
21734	472366756	21784	474542656	21834	476723556
21735	472410225	21785	474586225	21835	476767225
21736	472453696	21786	474629796	21836	476810896
21737	472497169	21787	474673369	21837	476854569
21738	472540644	21788	474716944	21838	476898244
21739	472584121	21789	474760521	21839	476941921
21740	472627600	21790	474804100	21840	476985600
21741	472671081	21791	474847681	21841	477029281
21742	472714564	21792	474891264	21842	477072964
21743	472758049	21793	474934849	21843	477116649
21744	472801536	21794	474978436	21844	477160336
21745	472845025	21795	475022025	21845	477204025
21746	472888516	21795	475065616	21846	477247716
21747	472932009	21797	475109209	21847	477291409
21748	472975504	21798	475152804	21848	477335104
21749	473019001	21799	475196401	21849	477378801
21750	473062500	21800	475240000	21850	477422500

21 M. 8 C.		21 M. 9 C.		21 M. 9 C.	
R.	Sq.	R.	Sq.	R.	Sq.
21851	477466201	21901	479653801	21951	481846401
21852	477509904	21902	479697604	21952	481890304
21853	477553609	21903	479741409	21953	481934209
21854	477597316	21904	479785216	21954	481978116
21855	477641025	21905	479829025	21955	482022025
21856	477684736	21906	479872836	21956	482065936
21857	477728449	21907	479916649	21957	482109849
21858	477772164	21908	479960464	21958	482153764
21859	477815881	21909	480004281	21959	482197681
21860	477859600	21910	480048100	21960	482241600
21861	477903321	21911	480091921	21961	482285521
21862	477947044	21912	480135744	21962	482329444
21863	477990769	21913	480179569	21963	482373369
21864	478034496	21914	480223396	21964	482417296
21865	478078225	21915	480267225	21965	482461225
21866	478121956	21916	480311056	21966	482505156
21867	478165689	21917	480354889	21967	482549089
21868	478209424	21918	480398724	21968	482593024
21869	478253161	21919	480442561	21969	482636961
21870	478296900	21920	480486400	21970	482680900
21871	478340641	21921	480530241	21971	482724841
21872	478384384	21922	480574084	21972	482768784
21873	478428129	21923	480617929	21973	482812729
21874	478471876	21924	480661776	21974	482856676
21875	478515625	21925	480705625	21975	482900625
21876	478559376	21926	480749476	21976	482944576
21877	478603129	21927	480793329	21977	482988529
21878	478646884	21928	480837184	21978	483032484
21879	478690641	21929	480881041	21979	483076441
21880	478734400	21930	480924900	21980	483120400
21881	478778161	21931	480968761	21981	483164361
21882	478821924	21932	481012624	21982	483208324
21883	478865689	21933	481056489	21983	483252289
21884	478909456	21934	481100356	21984	483296256
21885	478953225	21935	481144225	21985	483340225
21886	478996996	21936	481188096	21986	483384196
21887	479040769	21937	481231969	21987	483428169
21888	479084544	21938	481275844	21988	483472144
21889	479128321	21939	481319721	21989	483516121
21890	479172100	21940	481363600	21990	483560100
21891	479215881	21941	481407481	21991	483604081
21892	479259664	21942	481451364	21992	483648064
21893	479303449	21943	481495249	21993	483692049
21894	479347236	21944	481539136	21994	483736036
21895	479391025	21945	481583025	21995	483780025
21896	479434816	21946	481626916	21996	483824016
21897	479478609	21947	481670809	21997	483868009
21898	479522404	21948	481714704	21998	483912004
21899	479566201	21949	481758601	21999	483956001
21900	479610000	21950	481802500	22000	484000000

22 M.		22 M.		22 M. 1 C.	
R.	Sq.	R.	Sq.	R.	Sq.
22001	484044001	22051	486246601	22101	488454201
22002	484088004	22052	486290704	22102	488498404
22003	484132009	22053	486334809	22103	488542609
22004	484176016	22054	486378916	22104	488586816
22005	484220025	22055	486423025	22105	488631025
22006	484264036	22056	486467136	22106	488675236
22007	484308049	22057	486511249	22107	488719449
22008	484352064	22058	486555364	22108	488763664
22009	484396081	22059	486599481	22109	488807881
22010	484440100	22060	486643600	22110	488852100
22011	484484121	22061	486687721	22111	488896321
22012	484528144	22062	486731844	22112	488940544
22013	484572169	22063	486775969	22113	488984769
22014	484616196	22064	486820096	22114	489028996
22015	484660225	22065	486864225	22115	489073225
22016	484704256	22066	486908356	22116	489117456
22017	484748289	22067	486952489	22117	489161689
22018	484792324	22068	486996624	22118	489205924
22019	484836361	22069	487040761	22119	489250161
22020	484880400	22070	487084900	22120	489294400
22021	484924441	22071	487129041	22121	489338641
22022	484968484	22072	487173184	22122	489382884
22023	485012529	22073	487217329	22123	489427129
22024	485056576	22074	487261476	22124	489471376
22025	485100625	22075	487305625	22125	489515625
22026	485144676	22076	487349776	22126	489559876
22027	485188729	22077	487393929	22127	489604129
22028	485232784	22078	487438084	22128	489648384
22029	485276841	22079	487482241	22129	489692641
22030	485320900	22080	487526400	22130	489736900
22031	485364961	22081	487570561	22131	489781161
22032	485409024	22082	487614724	22132	489825424
22033	485453089	22083	487658889	22133	489869689
22034	485497156	22084	487703056	22134	489913956
22035	485541225	22085	487747225	22135	489958225
22036	485585296	22086	487791396	22136	490002496
22037	485629369	22087	487835569	22137	490046769
22038	485673444	22088	487879744	22138	490091044
22039	485717521	22089	487923921	22139	490135321
22040	485761600	22090	487968100	22140	490179600
22041	485805681	22091	488012281	22141	490223881
22042	485849764	22092	488056464	22142	490268164
22043	485893849	22093	488100649	22143	490312449
22044	485937936	22094	488144836	22144	490356736
22045	485982025	22095	488189025	22145	490401025
22046	486026116	22096	488233216	22146	490445316
22047	486070209	22097	488277409	22147	490489609
22048	486114304	22098	488321604	22148	490533904
22049	486158401	22099	488365801	22149	490578201
22050	486202500	22100	488410000	22150	490622500

22 M. 1 C.		22 M. 2 C.		22 M. 2 C.	
R.	Sq.	R.	Sq.	R.	Sq.
22151	490666801	22201	492884401	22251	495107001
22152	490711104	22202	492928804	22252	495151504
22153	490755409	22203	492973209	22253	495196009
22154	490799716	22204	493017616	22254	495240516
22155	490844025	22205	493062025	22255	495285025
22156	490888336	22206	493106436	22256	495329536
22157	490932649	22207	493150849	22257	495374049
22158	490976964	22208	493195264	22258	495418564
22159	491021281	22209	493239681	22259	495463081
22160	491065600	22210	493284100	22260	495507600
22161	491109921	22211	493328521	22261	495552121
22162	491154244	22212	493372944	22262	495596644
22163	491198569	22213	493417369	22263	495641169
22164	491242896	22214	493461796	22264	495685696
22165	491287225	22215	493506225	22265	495730225
22166	491331556	22216	493550656	22266	495774756
22167	491375889	22217	493595089	22267	495819289
22168	491420224	22218	493639524	22268	495863824
22169	491464561	22219	493683961	22269	495908361
22170	491508900	22220	493728400	22270	495952900
22171	491553241	22221	493772841	22271	495997441
22172	491597584	22222	493817284	22272	496041984
22173	491641929	22223	493861729	22273	496086529
22174	491686276	22224	493906176	22274	496131076
22175	491730625	22225	493950625	22275	496175625
22176	491774976	22226	493995076	22276	496220175
22177	491819329	22227	494039529	22277	496264729
22178	491863684	22228	494083984	22278	496309284
22179	491908041	22229	494128441	22279	496353841
22180	491952400	22230	494172900	22280	496398400
22181	491996761	22231	494217361	22281	496442961
22182	492041124	22232	494261824	22282	496487524
22183	492085489	22233	494306289	22283	496532089
22184	492129856	22234	494350756	22284	496576656
22185	492174225	22235	494395225	22285	496621225
22186	492218596	22236	494439696	22286	496665796
22187	492262969	22237	494484169	22287	496710369
22188	492307344	22238	494528644	22288	496754944
22189	492351721	22239	494573121	22289	496799521
22190	492396100	22240	494617600	22290	496844100
22191	492440481	22241	494662081	22291	496888681
22192	492484864	22242	494706564	22292	496933264
22193	492529249	22243	494751049	22293	496977849
22194	492573636	22244	494795536	22294	497022436
22195	492618025	22245	494840025	22295	497067025
22196	492662416	22246	494884516	22296	497111616
22197	492706809	22247	494929009	22297	497156209
22198	492751204	22248	494973504	22298	497200804
22199	492795601	22249	495018001	22299	497245401
22200	492840000	22250	495062500	22300	497290000

22 M. 3 C.		22 M. 3 C.		22 M. 4 C.	
R.	Sq.	R.	Sq.	R.	Sq.
22301	497334601	22351	499567201	22401	501804801
22302	497379204	22352	499611904	22402	501849604
22303	497423809	22353	499656609	22403	501894409
22304	497468416	22354	499701316	22404	501939216
22305	497513025	22355	499746025	22405	501984025
22306	497557636	22356	499790736	22406	502028836
22307	497602249	22357	499835449	22407	502073649
22308	497646864	22358	499880164	22408	502118464
22309	497691481	22359	499924881	22409	502163281
22310	497736100	22360	499969600	22410	502208100
22311	497780721	22361	500014321	22411	502252921
22312	497825344	22362	500059044	22412	502297744
22313	497869969	22363	500103769	22413	502342569
22314	497914596	22364	500148496	22414	502387396
22315	497959225	22365	500193225	22415	502432225
22316	498003856	22366	500237956	22416	502477056
22317	498048489	22367	500282689	22417	502521889
22318	498093124	22368	500327424	22418	502566724
22319	498137761	22369	500372161	22419	502611561
22320	498182400	22370	500416900	22420	502656400
22321	498227041	22371	500461641	22421	502701241
22322	498271684	22372	500506384	22422	502746084
22323	498316329	22373	500551129	22423	502790929
22324	498360976	22374	500595876	22424	502835776
22325	498405625	22375	500640625	22425	502880625
22326	498450276	22376	500685376	22426	502925476
22327	498494924	22377	500730129	22427	502970329
22328	498539584	22378	500774884	22428	503015184
22329	498584241	22379	500819641	22429	503060041
22330	498628900	22380	500864400	22430	503104900
22331	498673561	22381	500909161	22431	503149761
22332	498718224	22382	500953924	22432	503194624
22333	498762889	22383	500998689	22433	503239489
22334	498807556	22384	501043456	22434	503284356
22335	498852225	22385	501088225	22435	503329225
22336	498896896	22386	501132996	22436	503374096
22337	498941569	22387	501177769	22437	503418969
22338	498986244	22388	501222544	22438	503463844
22339	499030921	22389	501267321	22439	503508721
22340	499075600	22390	501312100	22440	503553600
22341	499120281	22391	501356881	22441	503598481
22342	499164964	22392	501401664	22442	503643364
22343	499209649	22393	501446449	22443	503688249
22344	499254336	22394	501491236	22444	503733136
22345	499299025	22395	501536025	22445	503778025
22346	499343716	22395	501580816	22446	503822916
22347	499388409	22397	501625609	22447	503867809
22348	499433104	22398	501670404	22448	503912704
22349	499477801	22399	501715201	22449	503957601
22350	499522500	22400	501760000	22450	504002500

22 M. 4 C.		22 M. 5 C.		22 M. 5 C.	
R.	Sq.	R.	Sq.	R.	Sq.
22451	504047401	22501	506295001	22551	508547601
22452	504092304	22502	506340004	22552	508592704
22453	504137209	22503	506385009	22553	508637809
22454	504182116	22504	506430016	22554	508682916
22455	504227025	22505	506475025	22555	508728025
22456	504271936	22506	506530036	22556	508773136
22457	504316849	22507	506565049	22557	508818249
22458	504361764	22508	506610064	22558	508863364
22459	504406681	22509	506655081	22559	508908481
22460	504451600	22510	506700100	22560	508953600
22461	504496521	22511	506745121	22561	508998721
22462	504541444	22512	506790144	22562	509043844
22463	504586369	22513	506835169	22563	509088969
22464	504631296	22514	506880196	22564	509134096
22465	504675225	22515	506925225	22565	509179225
22466	504721156	22516	506970256	22566	509224356
22467	504766089	22517	507015289	22567	509269489
22468	504811024	22518	507060324	22568	509314624
22469	504855961	22519	507105361	22569	509359761
22470	504900900	22520	507150400	22570	509404900
22471	504945841	22521	507195441	22571	509450041
22472	504990784	22522	507240484	22572	509495184
22473	505035729	22523	507285529	22573	509540329
22474	505080676	22524	507330576	22574	509585476
22475	505125625	22525	507375625	22575	509630625
22476	505170576	22526	507420676	22576	509675776
22477	505215529	22527	507465729	22577	509720929
22478	505260484	22528	507510784	22578	509766084
22479	505305441	22529	507555841	22579	509811241
22480	505350400	22530	507600900	22580	509856400
22481	505395361	22531	507645961	22581	509901561
22482	505440324	22532	507691024	22582	509946724
22483	505485289	22533	507736089	22583	509991889
22484	505530256	22534	507781156	22584	510037055
22485	505575225	22535	507826225	22585	510082225
22486	505620196	22536	507871296	22586	510127396
22487	505665169	22537	507916369	22587	510172569
22488	505710144	22538	507961444	22588	510217744
22489	505755121	22539	508006521	22589	510262921
22490	505800100	22540	508051600	22590	510308100
22491	505845081	22541	508096681	22591	510353281
22492	505890064	22542	508141764	22592	510398464
22493	505935049	22543	508186849	22593	510443649
22494	505980036	22544	508231936	22594	510488836
22495	506025025	22545	508277025	22595	510534025
22496	506070016	22546	508322116	22596	510579216
22497	506115009	22547	508367209	22597	510624409
22498	506160004	22548	508412304	22598	510669604
22499	506205001	22549	508457401	22599	510714801
22500	506250000	22550	508502500	22600	510760000

22 M. 6 C.		22 M. 6 C.		22 M. 7 C.	
R.	Sq.	R.	Sq.	R.	Sq.
22601	510805201	22651	513067801	22701	515335401
22602	510850404	22652	513113104	22702	515380804
22603	510895609	22653	513158409	22703	515426209
22604	510946816	22654	513203716	22704	515471616
22605	510986025	22655	513249025	22705	515517025
22606	511031236	22656	513294336	22706	515562436
22607	511076449	22657	513339649	22707	515607849
22608	511121664	22658	513384964	22708	515653264
22609	511166881	22659	513430281	22709	515698681
22610	511212100	22660	513475600	22710	515744100
22611	511257321	22661	513520921	22711	515789521
22612	511302544	22662	513566244	22712	515834944
22613	511347769	22663	513611569	22713	515880369
22614	511392996	22664	513656896	22714	515925796
22615	511438225	22665	513702225	22715	515971225
22616	511483456	22666	513747556	22716	516016656
22617	511528689	22667	513792889	22717	516062089
22618	511573924	22668	513838224	22718	516107524
22619	511619161	22669	513883561	22719	516152961
22620	511664400	22670	513928900	22720	516198400
22621	511709641	22671	513974241	22721	516243841
22622	511754884	22672	514019584	22722	516289284
22623	511800129	22673	514064929	22723	516334729
22624	511845376	22674	514110276	22724	516380176
22625	511890625	22675	514155625	22725	516425625
22626	511935876	22676	514200976	22726	516471076
22627	511981129	22677	514246329	22727	516516529
22628	512026384	22678	514291684	22728	516561984
22629	512071641	22679	514337041	22729	516607441
22630	512116900	22680	514382400	22730	516652900
22631	512162161	22681	514427761	22731	516698361
22632	512207424	22682	514473124	22732	516743824
22633	512252689	22683	514518489	22733	516789289
22634	512297956	22684	514563856	22734	516834756
22635	512343225	22685	514609225	22735	516880225
22636	512388496	22686	514654596	22736	516925696
22637	512433769	22687	514699969	22737	516971169
22638	512479044	22688	514745344	22738	517016644
22639	512524321	22689	514790721	22739	517062121
22640	512569600	22690	514836100	22740	517107600
22641	512614881	22691	514881481	22741	517153081
22642	512660164	22692	514926864	22742	517198564
22643	512705449	22693	514972249	22743	517244049
22644	512750736	22694	515017636	22744	517289536
22645	512796025	22695	515063025	22745	517335025
22646	512841316	22696	515108416	22746	517380516
22647	512886609	22697	515153809	22747	517426009
22648	512931904	22698	515199204	22748	517471504
22649	512977201	22699	515244601	22749	517517001
22650	513022500	22700	515290000	22750	517562500

22 M. 7 C.		22 M. 8 C.		22 M. 8 C.	
R.	Sq.	R.	Sq.	R.	Sq.
22751	517608001	22801	519885601	22851	522168201
22752	517653504	22802	519931204	22852	522213904
22753	517699009	22803	519976809	22853	522259609
22754	517744516	22804	520022416	22854	522305316
22755	517790025	22805	520068025	22855	522351025
22756	517835536	22806	520113636	22856	522396736
22757	517881049	22807	520159249	22857	522442449
22758	517926564	22808	520204864	22858	522488164
22759	517972081	22809	520250481	22859	522533881
22760	518017600	22810	520296100	22860	522579600
22761	518063121	22811	520341721	22861	522625321
22762	518108644	22812	520387344	22862	522671044
22763	518154169	22813	520432969	22863	522716769
22764	518199696	22814	520478596	22864	522762496
22765	518245225	22815	520524225	22865	522808225
22766	518290756	22816	520569856	22866	522853956
22767	518336289	22817	520615489	22867	522899689
22768	518381824	22818	520661124	22868	522945424
22769	518427361	22819	520706761	22869	522991161
22770	518472900	22820	520752400	22870	523036900
22771	518518441	22821	520798049	22871	523082641
22772	518563984	22822	520843684	22872	523128384
22773	518609529	22823	520889329	22873	523174129
22774	518655076	22824	520934976	22874	523219876
22775	518700625	22825	520980625	22875	523265625
22776	518746176	22826	521026276	22876	523311376
22777	518791729	22827	521071929	22877	523357129
22778	518837284	22828	521117584	22878	523402884
22779	518882841	22829	521163241	22879	523448641
22780	518928400	22830	521208900	22880	523494400
22781	518973961	22831	521254561	22881	523540161
22782	519019524	22832	521300224	22882	523585924
22783	519065089	22833	521345889	22883	523631689
22784	519110656	22834	521391556	22884	523677456
22785	519156225	22835	521437225	22885	523723225
22786	519201796	22836	521482896	22886	523768996
22787	519247369	22837	521528569	22887	523814769
22788	519292944	22838	521574244	22888	523860544
22789	519338521	22839	521619921	22889	523906321
22790	519384100	22840	521665600	22890	523952100
22791	519429681	22841	521711281	22891	523997881
22792	519475264	22842	521756964	22892	524043664
22793	519520849	22843	521802649	22893	524089449
22794	519566436	22844	521848336	22894	524135236
22795	519612025	22845	521894025	22895	524181025
22796	519657616	22846	521939716	22896	524226816
22797	519703209	22847	521985409	22897	524272609
22798	519748804	22848	522031104	22898	524318404
22799	519794401	22849	522076801	22899	524364201
22800	519840000	22850	522122500	22900	524410000

22 M. 9 C.		22 M. 9 C.		23 M.	
R.	Sq.	R.	Sq.	R.	Sq.
22901	524455801	22951	526748401	23001	529046001
22902	524501604	22952	526794300	23002	529092004
22903	524547409	22953	526840209	23003	529138009
22904	524593216	22954	526886116	23004	529184016
22905	524639025	22955	526932025	23005	529230025
22906	524684836	22956	526977936	23006	529276036
22907	524730649	22957	527023849	23007	529322049
22908	524776464	22958	527069764	23008	529368064
22909	524822281	22959	527115681	23009	529414081
22910	524868100	22960	527161600	23010	529460100
22911	524913921	22961	527207521	23011	529506121
22912	524959744	22962	527253444	23012	529552144
22913	525005569	22963	527299369	23013	529598169
22914	525051396	22964	527345296	23014	529644196
22915	525097225	22965	527391225	23015	529690225
22916	525143056	22966	527437156	23016	529736256
22917	525188889	22967	527483089	23017	529782289
22918	525234724	22968	527529024	23018	529828324
22919	525280561	22969	527574961	23019	529874361
22920	525326400	22970	527620900	23020	529920400
22921	525372241	22971	527666841	23021	529966441
22922	525418084	22972	527712784	23022	530012484
22923	525463929	22973	527758729	23023	530058529
22924	525509776	22974	527804676	23024	530104576
22925	525555625	22975	527850625	23025	530150625
22926	525601476	22976	527896576	23026	530196676
22927	525647329	22977	527942529	23027	530242729
22928	525693184	22978	527988484	23028	530288784
22929	525739041	22979	528034441	23029	530334841
22930	525784900	22980	528080400	23030	530380900
22931	525830761	22981	528126361	23031	530426961
22932	525876624	22982	528172324	23032	530473024
22933	525922484	22983	528218289	23033	530519089
22934	525968356	22984	528264256	23034	530565156
22935	526044225	22985	528310225	23035	530611225
22936	526060096	22986	528356196	23036	530657296
22937	526105969	22987	528402169	23037	530703369
22938	526151844	22988	528448144	23038	531749444
22939	526197721	22989	528494121	23039	531795521
22940	526243600	22990	528540100	23040	530841600
22941	526289481	22991	528586081	23041	530887681
22942	526335364	22992	528632064	23042	530933764
22943	526381249	22993	528678049	23043	530979849
22944	526427136	22994	528724036	23044	531025936
22945	526473025	22995	528770025	23045	531072025
22946	526518916	22996	528816016	23046	531118116
22947	526564809	22997	528862009	23047	531164209
22948	526610704	22998	528908004	23048	531210304
22949	526656601	22999	528954001	23049	531256401
22950	526702500	23000	529000000	23050	531302500

23 M.		23 M. 1 C.		23 M. 1 C.	
R.	Sq.	R.	Sq.	R.	Sq.
23051	531348601	23101	533656201	23151	535968801
23052	531394704	23102	533702404	23152	536015104
23053	531440809	23103	533748609	23153	536061409
23054	531486916	23104	533794816	23154	536107716
23055	531533025	23105	533841025	23155	536154025
23056	531579136	23106	533887236	23156	536200336
23057	531625249	23107	533933449	23157	536246649
23058	531671364	23108	533979664	23158	536292964
23059	531717481	23109	534025881	23159	536339281
23060	531763600	23110	534072100	23160	536385600
23061	531809721	23111	534118321	23161	536431921
23062	531855844	23112	534164544	23162	536478244
23063	531901969	23113	534210769	23163	536524569
23064	531948096	23114	534256996	23164	536570896
23065	531994225	23115	534303225	23165	536617225
23066	532040356	23116	534349456	23166	536663556
23067	532086489	23117	534395689	23167	536709889
23068	532132624	23118	534441924	23168	536756224
23069	532178761	23119	534488161	23169	536802561
23070	532224900	23120	534534400	23170	536848900
23071	532271041	23121	534580641	23171	536895241
23072	532317184	23122	534626884	23172	536941584
23073	532363329	23123	534673129	23173	536987929
23074	532409476	23124	534719376	23174	537034276
23075	532455625	23125	534765625	23175	537080625
23076	532501776	23126	534811876	23176	537126976
23077	532547929	23127	534858129	23177	537173329
23078	532594084	23128	534904384	23178	537219684
23079	532640241	23129	534950641	23179	537266041
23080	532686400	23130	534996900	23180	537312400
23081	532732561	23131	535043161	23181	537358761
23082	532778724	23132	535089424	23182	537405124
23083	532824889	23133	535135689	23183	537451489
23084	532871056	23134	535181956	23184	537497856
23085	532917225	23135	535228225	23185	537544225
23086	532963396	23136	535274496	23186	537590596
23087	533009569	23137	535320769	23187	537636969
23088	533055744	23138	535367044	23188	537683344
23089	533101921	23139	535413321	23189	537729721
23090	533148100	23140	535459600	23190	537776100
23091	533194281	23141	535505881	23191	537822481
23092	533240464	23142	535552164	23192	537868864
23093	533286649	23143	535598449	23193	537915249
23094	533332836	23144	535644736	23194	537961636
23095	533379025	23145	535691025	23195	538008025
23096	533425216	23146	535737316	23196	538054416
23097	533471409	23147	535783609	23197	538100809
23098	533517604	23148	535829904	23198	538147204
23099	533563801	23149	535876201	23199	538193601
23100	533610000	23150	535922500	23200	538240000

23 M. 2 C.		23 M. 2 C.		23 M. 3 C.	
R.	Sq.	R.	Sq.	R.	Sq.
23201	538286401	23251	540609001	23301	542936601
23202	538333804	23252	540655504	23302	542983204
23203	538379209	23253	540702009	23303	543029809
23204	538425616	23254	540748516	23304	543076416
23205	538472025	23255	540795025	23305	543123025
23206	538518436	23256	540841536	23306	543169636
23207	538564849	23257	540888049	23307	543216249
23208	538611264	23258	540934564	23308	543262864
23209	538657681	23259	540981081	23309	543309481
23210	538704100	23260	541027600	23310	543356100
23211	538750521	23261	541074121	23311	543402721
23212	538796944	23262	541120644	23312	543449344
23213	538843369	23263	541167169	23313	543495969
23214	538889796	23264	541213696	23314	543542596
23215	538936225	23265	541260225	23315	543589225
23216	538982656	23266	541306756	23316	543635856
23217	539029089	23267	541353289	23317	543682489
23218	539075524	23268	541399824	23318	543729124
23219	539121961	23269	541446361	23319	543775761
23220	539168400	23270	541492900	23320	543822400
23221	539214841	23271	541539441	23321	543869041
23222	539261284	23272	541585984	23322	543915684
23223	539307729	23273	541632529	23323	543962329
23224	539354176	23274	541679076	23324	544008976
23225	539400645	23275	541725625	23325	544055625
23226	539447076	23276	541772176	23326	544102276
23227	539493529	23277	541818729	23327	544148929
23228	539539984	23278	541865284	23328	544195584
23229	539586441	23279	541911841	23329	544242241
23230	539632900	23280	541958400	23330	54 28 0
23231	539679361	23281	542004961	23331	544335561
23232	539725824	23282	542051524	23332	544382224
23233	539772289	23283	542098089	23333	544428889
23234	539818756	23284	542144656	23334	544475556
23235	539865225	23285	542191225	23335	544522225
23236	539911696	23286	542237796	23336	544568896
23237	539958169	23287	542284369	23337	544615569
23238	540004644	23288	542330944	23338	544662244
23239	540051121	23289	542377521	23339	544708921
23240	540097600	23290	542424100	23340	544755600
23241	540144081	23291	542470681	23341	544802281
23242	540190564	23292	542517264	23342	544848964
23243	540237049	23293	542563849	23343	544895649
23244	540283536	23294	542610436	23344	544942336
23245	540330025	23295	542657025	23345	544989025
23246	540376516	23296	542703616	23346	545035716
23247	540423009	23297	542750209	23347	545082409
23248	540469504	23298	542796804	23348	545129104
23249	540516001	23299	542843401	23349	545175801
23250	540562500	23300	542890000	23350	545222500

23 M. 3 C.		23 M. 4 C.		23 M. 4 C.	
R.	Sq.	R.	Sq.	R.	Sq.
23351	545269201	23401	547606801	23451	549949401
23352	545315904	23402	547653604	23452	549996304
23353	545362609	23403	547700409	23453	550043209
23354	545409316	23404	547747216	23454	550090116
23355	545456025	23405	547794025	23455	550137025
23356	545502736	23406	547840836	23456	550183936
23357	545549449	23407	547887649	23457	550230849
23358	545596164	23408	547934464	23458	550277764
23359	545642881	23409	547981281	23459	550324681
23360	545689600	23410	548028100	23460	550371600
23361	545736321	23411	548074921	23461	550418521
23362	545783044	23412	548121744	23462	550465444
23363	545829769	23413	548168569	23463	550512369
23364	545876496	23414	548215396	23464	550559296
23365	545923225	23415	548262225	23465	550606225
23366	545969956	23416	548309056	23466	550653156
23367	546016689	23417	548355889	23467	550700089
23368	546063424	23418	548402724	23468	550747024
23369	546110161	23419	548449561	23469	550793961
23370	546156900	23420	548496400	23470	550840900
23371	546203641	23421	548543241	23471	550887841
23372	546250384	23422	548590084	23472	550934784
23373	546297129	23423	548636929	23473	550981729
23374	546343876	23424	548683776	23474	551028676
23375	546390625	23425	548730625	23475	551075625
23376	546437376	23426	548777476	23476	551122576
23377	546484129	23427	548824329	23477	551169529
23378	546530884	23428	548871184	23478	551216484
23379	546577641	23429	548918041	23479	551263441
23380	546624400	23430	548964900	23480	551310400
23381	546671161	23431	549011761	23481	551357361
23382	546717924	23432	549058624	23482	551404324
23383	546764689	23433	549105489	23483	551451289
23384	546811456	23434	549152356	23484	551498256
23385	546858225	23435	549199225	23485	551545225
23386	546904996	23436	549246096	23486	551592196
23387	546951769	23437	549292969	23487	551639169
23388	546998544	23438	549339844	23488	551686144
23389	547045321	23439	549386721	23489	551733121
23390	547092100	23440	549433600	23490	551780100
23391	547138881	23441	549480481	23491	551827081
23392	547185664	23442	549527364	23492	551874064
23393	547232449	23443	549574249	23493	551921049
23394	547279236	23444	549621136	23494	551968036
23395	547326025	23445	549668025	23495	552015025
23396	547372816	23446	549714916	23496	552062016
23397	547419609	23447	549761809	23497	552109009
23398	547466404	23448	549808704	23498	552156004
23399	547513201	23449	549855601	23499	552203001
23400	547560000	23450	549902500	23500	552250000

23 M. 5 C.		23 M. 5 C.		23 M. 6 C.	
R.	Sq.	R.	Sq.	R.	Sq.
23501	552297001	23551	554649601	23601	557007201
23502	552344004	23552	554696704	23602	557054404
23503	552391009	23553	554743809	23603	557101609
23504	552438016	23554	554790916	23604	557148816
23505	552485025	23555	554838025	23605	557196025
23506	552532036	23556	554885136	23606	557243236
23507	552579049	23557	554932249	23607	557290449
23508	552626064	23558	554979364	23608	557337664
23509	552673081	23559	555026481	23609	557384881
23510	552720100	23560	555073600	23610	557432100
23511	552767121	23561	555120721	23611	557479321
23512	552814144	23562	555167844	23612	557526544
23513	552861169	23563	555214969	23613	557573769
23514	552908196	23564	555262096	23614	557620996
23515	552955225	23565	555309225	23615	557668225
23516	553002256	23566	555356356	23616	557715456
23517	553049289	23567	555403489	23617	557762689
23518	553096324	23568	555450624	23618	557809924
23519	553143361	23569	555497761	23619	557857161
23520	553190400	23570	555544900	23620	557904400
23521	553237441	23571	555592041	23621	557954641
23522	553284484	23572	555639184	23622	557998884
23523	553331529	23573	555686329	23623	558046129
23524	553378576	23574	555733476	23624	558093376
23525	553425625	23575	555780625	23625	558140625
23526	553472676	23576	555827776	23626	558187876
23527	553519729	23577	555874929	23627	558235129
23528	553566784	23578	555922084	23628	558282384
23529	553613841	23579	555969241	23629	558329641
23530	553660900	23580	556016400	23630	558376900
23531	553707961	23581	556063561	23631	558424161
23532	553755024	23582	556110724	23632	558471424
23533	553802089	23583	556157889	23633	558518689
23534	553849156	23584	556205056	23634	558565956
23535	553896225	23585	556252225	23635	558613225
23536	553943296	23586	556299396	23636	558660496
23537	553990369	23587	556346569	23637	558707769
23538	554037444	23588	556393744	23638	558755044
23539	554084521	23589	556440921	23639	558802321
23540	554131600	23590	556488100	23640	558849600
23541	554178681	23591	556535281	23641	558896881
23542	554225764	23592	556582468	23642	558944164
23543	554272849	23593	556629649	23643	558991449
23544	554319936	23594	556676836	23644	559038736
23545	554367025	23595	556724025	23645	559086025
23546	554414116	23596	556771216	23646	559133316
23547	554461209	23597	556818409	23647	559180609
23548	554508304	23598	556865604	23648	559227904
23549	554555401	23599	556912801	23649	559275201
23550	554602500.	23600	556960000	23650	559322500

23 M. 6 C.		23 M. 7 C.		23 M. 7 C.	
R.	Sq.	R.	Sq.	R.	Sq.
23651	559369801	23701	561737401	23751	564110001
23652	559417104	23702	561784804	23752	564157504
23653	559464409	23703	561832209	23753	564205009
23654	559511716	23704	561879616	23754	564252516
23655	559559025	23705	561927025	23755	564300025
23656	559606336	23706	561974435	23756	564347536
23657	559653649	23707	562021849	23757	564395049
23658	559700964	23708	562069264	23758	564442564
23659	559748281	23709	562116681	23759	564490081
23660	559795600	23710	562164100	23760	564537600
23661	559842921	23711	562211521	23761	564585121
23662	559890244	23712	562258944	23762	564532644
23663	559937569	23713	562306369	23763	564680169
23664	559984896	23714	562353795	23764	564727696
23665	560032225	23715	562401225	23765	564775225
23656	560079556	23716	562448656	23766	564822756
23667	560126889	23717	562496089	23767	564870289
23668	560174224	23718	562543524	23768	564917824
23669	560221561	23719	562590961	23769	564965361
23670	560268900	23720	562638400	23770	565012900
23671	560316241	23721	562685841	23771	565060441
23572	560363584	23722	562733284	23772	565107984
23673	560410929	23723	562780729	23773	565155529
23674	560458276	23724	562828176	23774	565203076
23575	560505625	23725	562875625	23775	565250625
23676	500552976	23726	562923076	23776	565298176
23677	560000329	23727	562970529	23777	565345729
23578	560647684	23728	563017984	23778	565393284
23679	560695041	23729	563065441	23779	565440841
23680	560742400	23730	563112900	23780	565488400
23681	560789761	23731	563160361	23781	565535961
23682	560837124	23732	563207824	23782	565583524
23683	560884489	23733	563255289	23783	565631089
23684	560931856	23734	563302756	23784	565678656
23685	560979225	23735	563350225	23785	565726225
23686	561026596	23736	563397695	23786	565773796
23687	561073969	23737	563445169	23787	565821369
23688	561121344	23738	563492644	23788	565868944
23689	561168721	23739	563540121	23789	565916521
23690	561216100	23740	563587600	23790	565964100
23691	561263481	23741	563635081	23791	566011681
23692	561310864	23742	563682564	23792	566059264
23693	561358249	23743	563730049	23793	566106849
23694	561405636	23744	563777536	23794	566154436
23695	561453025	23745	563825025	23795	566202025
23696	561500416	23746	563872516	23796	566249616
23697	561547809	23747	563920009	23797	566297209
23698	561595204	23748	563967504	23798	566344804
23699	561642601	23749	564015001	23799	566392401
23700	561690000	23750	564062500	23800	566440000

23 M. 8 C.		23 M. 8 C.		23 M. 9 C.	
R.	Sq.	R.	Sq.	R.	Sq.
23801	566487601	23851	568870201	23901	571257801
23802	566535204	23852	568917904	23902	571305604
23803	566582809	23853	568965609	23903	571353409
23804	566630416	23854	569013316	23904	571401216
23805	566678025	23855	569061025	23905	571449025
23806	566725636	23856	569108736	23906	571496836
23807	566773249	23857	569156449	23907	571544649
23808	566820864	23858	569204164	23908	571592464
23809	566868481	23859	569251881	23909	571640281
23810	566916100	23860	569299600	23910	571688100
23811	566963721	23861	569347321	23911	571735921
23812	567011344	23862	569395044	23912	571783744
23813	567058969	23863	569442769	23913	571831569
23814	567106596	23864	569490496	23914	571879396
23815	567154225	23865	569538225	23915	571927225
23816	567201856	23866	569585956	23916	571975056
23817	567249489	23867	569633689	23917	572022889
23818	567297124	23868	569681424	23918	572070724
23819	567344761	23869	569729161	23919	572118561
23820	567392400	23870	569776900	23920	572166400
23821	567440041	23871	569824641	23921	572214241
23822	567487684	23872	569872384	23922	572262084
23823	567535329	23873	569920129	23923	572309929
23824	567582976	23874	569967876	23924	572357776
23825	567630625	23875	570015625	23925	572405625
23826	567678276	23876	570063376	23926	572453476
23827	567725929	23877	570111129	23927	572501329
23828	567773584	23878	570158884	23928	572549184
23829	567821241	23879	570206641	23929	572597041
23830	567868900	23880	570254400	23930	572644900
23831	567916561	23881	570302161	23931	572692761
23832	567964224	23882	570349924	23932	572740624
23833	568011889	23883	570397689	23933	572788489
23834	568059556	23884	570445456	23934	572836356
23835	568107225	23885	570493225	23935	572884225
23836	568154896	23886	570540996	23936	572932096
23837	568202569	23887	570588769	23937	572979969
23838	568250244	23888	570636544	23938	573027844
23839	568297921	23889	570684321	23939	573075721
23840	568345600	23890	570732100	23940	573123600
23841	568393281	23891	570779881	23941	573171481
23842	568440964	23892	570827664	23942	573219364
23843	568488649	23893	570875449	23943	573267249
23844	568536336	23894	570923236	23944	573315136
23845	568584025	23895	570971025	23945	573363025
23846	568631716	23896	571018816	23946	573410916
23847	568679409	23897	571066609	23947	573458809
23848	568727104	23898	571114404	23948	573506704
23849	568774801	23899	571162201	23949	573554601
23850	568822500	23900	571210000	23950	573602500

23 M. 9 C.		24 M.		24 M.	
R.	Sq.	R.	Sq.	R.	Sq.
23951	573650401	24001	576048001	24051	578450601
23952	573698304	24002	576096004	24052	578498704
23953	573746209	24003	576144009	24053	578546809
23954	573794116	24004	576192016	24054	578594916
23955	573842025	24005	576240025	24055	578643025
23956	573889936	24006	576288036	24056	578691136
23957	573937849	24007	576336049	24057	578739249
23958	573985764	24008	576384064	24058	578787364
23959	574033681	24009	576432081	24059	578835481
23960	574081600	24010	576480100	24060	578883600
23961	574129521	24011	576528121	24061	578931721
23962	574177444	24012	576576144	24062	578979844
23963	574225369	24013	576624169	24063	579027969
23964	574273296	24014	576672196	24064	579076096
23965	574321225	24015	576720225	24065	579124225
23956	574369156	24016	576768256	24066	579172356
23967	574417089	24017	576816289	24067	579220489
23968	574465024	24018	576864324	24068	579268624
23969	574512961	24019	576912361	24069	579316761
23970	574560900	24020	576960400	24070	579364900
23971	574608841	24021	577008441	24071	579413041
23972	574656784	24022	577056484	24072	579461184
23973	574704729	24023	577104529	24073	579509329
23974	574752676	24024	577152576	24074	579557476
23975	574800625	24025	577200625	24075	579605625
23976	574848576	24026	577248676	24076	579653776
23977	574896529	24027	577296729	24077	579701929
23978	574944484	24028	577344784	24078	579750084
23979	574992441	24029	577392841	24079	579798241
23980	575040400	24030	577440900	24080	579846400
23981	575088361	24031	577488961	24081	579894561
23982	575136324	24032	577537024	24082	579942724
23983	575184289	24033	577585089	24083	579990889
23984	575232256	24034	577633156	24084	580039056
23985	575280225	24035	577681225	24085	580087225
23986	575328196	24036	577729296	24086	580155396
23987	575376169	24037	577777369	24087	580183569
23988	575424144	24038	577825444	24088	580231744
23989	575472121	24039	577873521	24089	580279921
13990	575520100	24040	577921600	24090	580328100
23991	575568081	24041	577969681	24091	580376281
23992	575616064	24042	578017764	24092	580424464
23993	575664049	24043	578065849	24093	580472649
23994	575712036	24044	578113936	24094	580520836
23995	575760025	24045	578162025	24095	580569025
23996	575808016	24046	578210116	24096	580617616
23997	575856009	24047	578258209	24097	580665409
23998	575904004	24048	578306304	24098	580713604
23999	575952001	24049	578354401	24099	580761801
24000	576000000	24050	578402500	24100	580810000

24 M. 1 C.		24 M. 1 C.		24 M. 2 C.	
R.	Sq.	R.	Sq.	R.	Sq.
24101	580858201	24151	583270801	24201	585688401
24102	580906404	24152	583319104	24202	585736804
24103	580954609	24153	583367409	24203	585785209
24104	581002816	24154	583315716	24204	585833616
24105	581051025	24155	583464025	24205	585882025
24106	581099236	24156	583512336	24206	585930436
24107	581147449	24157	583560649	24207	585978849
24108	581195664	24158	583608964	24208	586027264
24109	581243881	24159	583657281	24209	586075681
24110	581292100	24160	583705600	24210	586124100
24111	581340321	24161	583753921	24211	586172521
24112	581388544	24162	583802244	24212	586220944
24113	581436769	24163	583850569	24213	586269369
24114	581484996	24164	583898896	24214	586317796
24115	581533225	24165	583947225	24215	586366225
24116	581581456	24166	583995556	24216	586414656
24117	581629689	24167	584043889	24217	586463089
24118	581677924	24168	584092224	24218	586511524
24119	581726161	24169	584140561	24219	586559961
24120	581774400	24170	584188900	24220	586608400
24121	581822641	24171	584237241	24221	586656841
24122	581870884	24172	584285584	24222	586705284
24123	581919129	24173	584333929	24223	586753729
24124	581967376	24174	584382276	24224	586802176
24125	582015625	24175	584430625	24225	586850625
24126	582063876	24176	584478976	24226	586899076
24127	582112129	24177	584527329	24227	586947529
24128	582160384	24178	584575684	24228	586995984
24129	582208641	24179	584624041	24229	587044441
24130	582256900	24180	584672400	24230	587092900
24131	582305161	24181	584720761	24231	587141361
24132	582353424	24182	584769124	24232	587189824
24133	582401689	24183	584817489	24233	587238289
24134	582449956	24184	584865856	24234	587286756
24135	582498225	24185	584914225	24235	587335225
24136	582546496	24186	584962596	24236	587383696
24137	582594769	24187	585010969	24237	587432169
24138	582643044	24188	585059344	24238	587480644
24139	582691321	24189	585107721	24239	587529121
24140	582739600	24190	585156100	24240	587577600
24141	582787881	24191	585204481	24241	587626081
24142	582836164	24192	585252864	24242	587674564
24143	582884449	24193	585301249	24243	587723049
24144	582932736	24194	585349636	24244	587771536
24145	582981025	24195	585398025	24245	587820025
24146	583029316	24195	585446416	24246	587868516
24147	583077609	24197	585494809	24247	587917009
24148	583125904	24198	585543204	24248	587965504
24149	583174201	24199	585591601	24249	588014001
24150	583222500	24200	585640000	24250	588062500

24 M. 2 C.		24 M. 3 C.		24 M. 3 C.	
R.	Sq.	R.	Sq.	R.	Sq.
24251	588111001	24301	590538601	24351	592971201
24252	588159504	24302	590587204	24352	593019904
24253	588208009	24303	590635809	24353	593068609
24254	588256516	24304	590684416	24354	593117316
24255	588305025	24305	590733025	24355	593166025
24256	588353536	24306	590781636	24356	593214736
24257	588402049	24307	590830249	24357	593263449
24258	588450564	24308	590878864	24358	593312164
24259	588499081	24309	590927481	24359	593360881
24260	588547600	24310	590976100	24360	593409600
24261	588596121	24311	591024721	24361	593458321
24262	588644644	24312	591073344	24362	593507044
24263	588693169	24313	591121969	24363	593555769
24264	588741696	24314	591170596	24364	593604496
24265	588790225	24315	591219225	24365	593653225
24266	588838756	24316	591267856	24366	593701956
24267	588887289	24317	591316489	24367	593750689
24268	588935824	24318	591365124	24368	593799424
24269	588984361	24319	591413761	24369	593848161
24270	589032900	24320	591462400	24370	593896900
24271	589081441	24321	591511041	24371	593945641
24272	589129984	24322	591559684	24372	593994384
24273	589178529	24323	591608329	24373	594043129
24274	589227076	24324	591656976	24374	594091876
24275	589275625	24325	591705625	24375	594140625
24276	589324176	24326	591754276	24376	594189376
24277	589372729	24327	591802929	24377	594238129
24278	589421284	24328	591851584	24378	594286884
24279	589469841	24329	591900241	24379	594335641
24280	589518400	24330	591948900	24380	594384400
24281	589566961	24331	591997561	24381	594433161
24282	589615524	24332	592046224	24382	594481924
24283	589664089	24333	592094889	24383	594530689
24284	589712656	24334	592143556	24384	594579456
24285	589761225	24335	592192225	24385	594628225
24286	589809696	24336	592240896	24386	594676996
24287	589858369	24337	592289569	24387	594725769
24288	589906944	24338	592338244	24388	594774544
24289	589955521	24339	592386921	24389	594823321
24290	590004100	24340	592435600	24390	594872100
24291	590052681	24341	592484281	24391	594920881
24292	590101264	24342	592532964	24392	594969664
24293	590149849	24343	592581649	24393	595018449
24294	590198436	24344	592630336	24394	595067236
24295	590247025	24345	592679025	24395	595116025
24296	590295616	24346	592727716	24396	595164816
24297	590344209	24347	592776409	24397	595213609
24298	590392804	24348	592825104	24398	595262404
24299	590441401	24349	592873801	24399	595311201
24300	590490000	24350	592922500	24400	595360000

24 M. 4 C.		24 M. 4 C.		24 M. 5 C.	
R.	Sq.	R.	Sq.	R.	Sq.
24401	595408801	24451	597851401	24501	600299001
24402	595457604	24452	597900304	24502	600348004
24403	595506409	24453	597949209	24503	600397009
24404	595555216	24454	597998116	24504	600446016
24405	595604025	24455	598047025	24505	600495025
24406	595652836	24456	598095936	24506	600544036
24407	595701649	24457	598144849	24507	600593049
24408	595750464	24458	598193764	24508	600642064
24409	595799281	24459	598242681	24509	600691081
24410	595848100	24460	598291600	24510	600740100
24411	595896921	24461	598340521	24511	600789121
24412	595945744	24462	598389444	24512	[illegible]
24413	595994569	24463	598438369	24513	[illegible]
24414	596043396	24464	598487296	24514	[illegible]
24415	596092225	24465	598536225	24515	600985225
24416	596141056	24466	598585156	24516	601034256
24417	596189889	24467	598634089	24517	601083289
24418	596238724	24468	598683024	24518	601132324
24419	596287561	24469	598731961	24519	601181361
24420	596336400	24470	598780900	24520	601230400
24421	596385241	24471	598829841	24521	[illegible]
24422	596434084	24472	598878784	24522	[illegible]
24423	596482929	24473	598927729	24523	601377520
24424	596531776	24474	598976676	24524	601426576
24425	596580625	24475	599025625	24525	601475625
24426	596629476	24476	599074576	24526	601524676
24427	596678329	24477	599123529	24527	601573729
24428	596727184	24478	599172484	24528	601622784
24429	596776041	24479	599221441	24529	601671841
24430	596824900	24480	599270400	24530	601720900
24431	596873761	24481	599319361	24531	601769961
24432	596922624	24482	599368324	24532	601819024
24433	596971489	24483	599417289	24533	[illegible]
24434	597020356	24484	599466256	24534	[illegible]
24435	597069225	24485	599515225	24535	601966225
24436	597118096	24486	599564196	24536	602015296
24437	597166969	24487	599613169	24537	602064369
24438	597215844	24488	599662144	24538	602113441
24439	597264721	24489	599711121	24539	602163521
24440	597313600	24490	599760100	24540	602211600
24441	597362481	24491	599809081	24541	602260681
24442	597411364	24492	599858064	24542	602309764
24443	597460249	24493	599907049	24543	602358849
24444	597509136	24494	599956036	24544	602407936
24445	597558025	24495	600005025	24545	602457025
24446	597606916	24496	600054016	24546	602506116
24447	597655809	24497	600103009	24547	602555209
24448	597704704	24498	600152004	24548	602604304
24449	597753601	24499	600201001	24549	602653401
24450	597802500	24500	600250000	24550	602702500

24 M. 5 C.		24 M. 6 C.		24 M. 6 C.	
R.	Sq.	R.	Sq.	R.	Sq.
24551	602751601	24601	605209201	24651	607671801
24552	602800704	24602	605258404	24652	607721104
24553	602849809	24603	605307609	24653	607770409
24554	602898916	24604	605356816	24654	607819716
24555	602948025	24605	605406025	24655	607869025
24556	602997136	24606	605455236	24656	607918336
24557	603046249	24607	605504449	24657	607967649
24558	603095364	24608	605553664	24658	608016964
24559	603144481	24609	605602881	24659	608066281
24560	603193600	24610	605652100	24660	608115600
24561	603242721	24611	605701321	24661	608164921
24562	603291844	24612	605750544	24662	608214244
24563	603340969	24613	605799769	24663	608263569
24564	603390096	24614	605848996	24664	608312896
24565	603439225	24615	605898225	24665	608362225
24566	603488356	24616	605947456	24666	608411556
24567	603537489	24617	605996689	24667	608460889
24568	603586624	24618	606045924	24668	608510224
24569	603635761	24619	606095161	24669	608559561
24570	603684900	24620	606144400	24670	608608900
24571	603734041	24621	606193641	24671	608658241
24572	603783184	24622	606242884	24672	608707584
24573	603832329	24623	606292129	24673	608756929
24574	603881476	24624	606341376	24674	608806276
24575	603930625	24625	606390625	24675	608855625
24576	603979776	24626	606439876	24676	608904976
24577	604028929	24627	606489129	24677	608954329
24578	604078084	24628	606538384	24678	609003684
24579	604127241	24629	606587641	24679	609053041
24580	604176400	24630	606636900	24680	609102400
24581	604225561	24631	606686161	24681	609151761
24582	604274724	24632	606735424	24682	609201124
24583	604323889	24633	606784689	24683	609250489
24584	604373056	24634	606833956	24684	609299856
24585	604422225	24635	606883225	24685	609349225
24586	604471396	24636	606932496	24686	609398596
24587	604520569	24637	606981769	24687	609447969
24588	604569744	24638	607031044	24688	609497344
24589	604618921	24639	607080321	24689	609546721
24590	604668100	24640	607129600	24690	609596100
24591	604717281	24641	607178881	24691	609645481
24592	604766464	24642	607228164	24692	609694864
24593	604815649	24643	607277449	24693	609744249
24594	604864836	24644	607326736	24694	609793636
24595	604914025	24645	607376025	24695	609843025
24596	604963216	24646	607425316	24696	609892416
24597	605012409	24647	607474609	24697	609941809
24598	605061604	24648	607523904	24698	609991204
24599	605110801	24649	607573201	24699	610040601
24600	605160000	24650	607622500	24700	610090000

24 M. 7 C.		24 M. 7 C.		24 M. 8 C.	
R.	Sq.	R.	Sq.	R.	Sq.
24701	610139401	24751	612612001	24801	615089601
24702	610188804	24752	612661504	24802	615139204
24703	610238209	24753	612711009	24803	615188809
24704	610287616	24754	612760516	24804	615238416
24705	610337025	24755	612810025	24805	615288025
24706	610386436	24756	612859536	24806	615337636
24707	610435849	24757	612909049	24807	615387249
24708	610485264	24758	612958564	24808	615436864
24709	610534681	24759	613008081	24809	615486481
24710	610584100	24760	613057600	24810	615536100
24711	610633521	24761	613107121	24811	615585721
24712	610682944	24762	613156644	24812	615635344
24713	610732369	24763	613206169	24813	615684969
24714	610781796	24764	613255696	24814	615734596
24715	610831225	24765	613305225	24815	615784225
24716	610880656	24766	613354756	24816	615833856
24717	610930089	24767	613404289	24817	615883489
24718	610979524	24768	613453824	24818	615933124
24719	611028961	24769	613503361	24819	615982761
24720	611078400	24770	613552900	24820	616032400
24721	611127841	24771	613602441	24821	616082041
24722	611177284	24772	613651984	24822	616131684
24723	611226729	24773	613701529	24823	616181329
24724	611276176	24774	613751076	24824	616230976
24725	611325625	24775	613800625	24825	616280625
24726	611375076	24776	613850176	24826	616330276
24727	611424529	24777	613899729	24827	616379929
24728	611473984	24778	613949284	24828	616429584
24729	611523441	24779	613998841	24829	616479241
24730	611572900	24780	614048400	24830	615528900
24731	611622361	24781	614097961	24831	616578561
24732	611671824	24782	614147524	24832	616628224
24733	611721289	24783	614197089	24833	616677889
24734	611770756	24784	614246656	24834	616727556
24735	611820225	24785	614296225	24835	616777225
24736	611869696	24786	614345796	24836	616826896
24737	611919169	24787	614395369	24837	616876569
24738	611968644	24788	614444944	24838	616926244
24739	612018121	24789	614494521	24839	616975921
24740	612067600	24790	614544100	24840	617025600
24741	612117081	24791	614593681	24841	617075281
24742	612166564	24792	614643264	24842	617124964
24743	612216049	24793	614692849	24843	617174649
24744	612265536	24794	614742436	24844	617224336
24745	612315025	24795	614792025	24845	617274025
24746	612364516	24796	614841616	24846	61732[illegible]
24747	612414009	24797	614891209	24847	61737[illegible]
24748	612463504	24798	614940804	24848	6174[illegible]
24749	612513001	24799	614990401	24849	6174[illegible]
24750	612562500	24800	615040000	24850	6175[illegible]

24 M. 8 C.		24 M. 9 C.		24 M. 9 C.	
R.	Sq.	R.	Sq.	R.	Sq.
24851	617572201	24901	620059801	24951	622552401
24852	617621904	24902	620109604	24952	622602304
24853	617671609	24903	620159409	24953	622652209
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